

591508035Seqlist.txt
SEQUENCE LISTING

<110> KURODA, Masaharu

<120> Plant with Reduced Protein Content in Seed, Method of Constructing the Same and Method of Using the Same

<130> 59150-8035

<140> US 10/539,992

<151> 2003-12-04

<150> PCT/JP2003/015753

<151> 2003-12-09

<150> JP 2002-369700

<151> 2002-12-20

<160> 119

<170> PatentIn version 3.3

<210> 1

<211> 617

<212> DNA

<213> Oryza sativa

<220>

<223> 13kD prolamin RM9

<400> 1

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| tgctattgct | gcatgcagtg | cctctgcgca | gtttgatgct | gttactcaag | tttacaggca | 120 |
| atatcagctg | cagccgcac | tcatgctgca | gcaacagatg | cttagcccat | gcggtgagtt | 180 |
| cgtaaggcag | cagtgcagca | cagtggcaac | ccccttcttc | caatcaccgc | tggttcaact | 240 |
| gagaaactgc | caagtcatgc | agcagcagtg | ctgccaacag | ctcaggatga | tcgcacaaca | 300 |
| gtctcactgc | caggccatta | gcagtgttca | ggctattgtg | cagcagctac | ggctacaaca | 360 |
| gtttgctagc | gtctacttcg | atcagagtca | agctcaagcc | caagctatgt | tggtccctaaa | 420 |
| catgccgtca | atatgcggtg | tctacccaag | ctacaacact | gctccctgta | gcattcccac | 480 |
| cgtcggtggt | atctggtatt | gaattgtagc | agtatagtag | tacaggagag | aaaaataaag | 540 |
| tcatgcatca | tcgtgtgtga | caagttgaaa | catcgggggtg | atacaaatct | gaataaaaat | 600 |
| gtcatgcaag | tttaaac | | | | | 617 |

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<212> PRT

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<220>

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<400> 2

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| 1 | | | | 5 | | | | 10 | | | | | | 15 | |
| Ala | Ser | Ala | Gln | Phe | Asp | Ala | Val | Thr | Gln | Val | Tyr | Arg | Gln | Tyr | Gln |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Leu | Gln | Pro | His | Leu | Met | Leu | Gln | Gln | Gln | Met | Leu | Ser | Pro | Cys | Gly |
| | | | 35 | | | | 40 | | | | | 45 | | | |
| Glu | Phe | Val | Arg | Gln | Gln | Cys | Ser | Thr | Val | Ala | Thr | Pro | Phe | Phe | Gln |
| | | | 50 | | | 55 | | | | 60 | | | | | |
| Ser | Pro | Val | Phe | Gln | Leu | Arg | Asn | Cys | Gln | Val | Met | Gln | Gln | Gln | Cys |
| 65 | | | | | 70 | | | | 75 | | | | | 80 | |
| Cys | Gln | Gln | Leu | Arg | Met | Ile | Ala | Gln | Gln | Ser | His | Cys | Gln | Ala | Ile |

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85 90 95
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 100 105 110
 Ser Val Tyr Phe Asp Gln Ser Gln Ala Gln Ala Met Leu Ala
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 Leu Asn Met Pro Ser Ile Cys Gly Ile Tyr Pro Ser Tyr Asn Thr Ala
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 Pro Cys Ser Ile Pro Thr Val Gly Gly Ile Trp Tyr
 145 150 155

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 atcaactaca atcgcatctc ctgctacagc aacaagtgtc cagcccatgc agtgagttcg 180
 taaggcaaca gcatagcata gtggcaaccc ctttctggca accagctacg tttcaattga 240
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 tcggtgttgt ctactttgat cagactcaag ctcaagctca agctttgctg gccttaaact 420
 tgccatccat atgtggtatc tatcctaact actacattgc tccgaggagc attcccaccg 480
 ttggtggtgt ctggtactga attgtaatat tataatgggt caaatgttaa aaataaagtc 540
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 Leu Gln Ser His Leu Leu Leu Gln Gln Val Leu Ser Pro Cys Ser
 35 40 45
 Glu Phe Val Arg Gln Gln His Ser Ile Val Ala Thr Pro Phe Trp Gln
 50 55 60
 Pro Ala Thr Phe Gln Leu Ile Asn Asn Gln Val Met Gln Gln Gln Cys
 65 70 75 80
 Cys Gln Gln Leu Arg Leu Val Ala Gln Gln Ser His Tyr Gln Ala Ile
 85 90 95
 Ser Ser Val Gln Ala Ile Val Gln Gln Leu Gln Leu Gln Gln Val Gly
 100 105 110
 Val Val Tyr Phe Asp Gln Thr Gln Ala Gln Ala Gln Ala Leu Leu Ala
 115 120 125
 Leu Asn Leu Pro Ser Ile Cys Gly Ile Tyr Pro Asn Tyr Tyr Ile Ala
 130 135 140
 Pro Arg Ser Ile Pro Thr Val Gly Gly Val Trp Tyr
 145 150 155

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 cgcgcccat cccggtgcgc gacccatcgt tcacacagtt caagcattat acagaaaaat 180
 agaaagatct agtgtccgc agcaatgaag atcatttttcg tctttgctct ccttgctatt 240
 gctgcatgca ggcctctgcc gagtttgatg tttttagggtc aaagttatag gcaatatcag 300
 ctgcagtcgc ctgtcctgct acagcaacag gtgcttagcc catataatga gttcgttaagg 360
 cagcagtatg gcatagcggc aagccccctt ttgcaatcag ctgcatttca actgagaaat 420
 aaccaagtct ggcaacatca ggctgggtggc caacaatctc gctatcagga cattaacatt 480
 gttcaggcca tagcgtagca gctacaactc cagcaatttg gtgatctcta ctttgatcgg 540
 aatcaggctc aagctcaagc tctattggct tttaacgtgc catctagata tgggtatctac 600
 cctaggtact atggtgcacc cagtaccatt accacccttg gcggtgtctt gtaatgtggt 660
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<210> 6
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 <212> PRT
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 Pro Leu Pro Ser Leu Met Phe Leu Gly Gln Ser Tyr Arg Gln Tyr Gln
 20 25 30
 Leu Gln Ser Pro Val Leu Leu Gln Gln Gln Val Leu Ser Pro Tyr Asn
 35 40 45
 Glu Phe Val Arg Gln Gln Tyr Gly Ile Ala Ala Ser Pro Phe Leu Gln
 50 55 60
 Ser Ala Ala Phe Gln Leu Arg Asn Asn Gln Val Trp Gln His Gln Ala
 65 70 75 80
 Gly Gly Gln Gln Ser Arg Tyr Gln Asp Ile Asn Ile Val Gln Ala Ile
 85 90 95
 Ala Tyr Glu Leu Gln Leu Gln Gln Phe Gly Asp Leu Tyr Phe Asp Arg
 100 105 110
 Asn Gln Ala Gln Ala Gln Ala Leu Ala Phe Asn Val Pro Ser Arg
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 Leu Gly Gly Val Leu
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 caagtattat acagaaaaat agaaagatct agtgtccgc agcaatgaag atcatttttcg 180

591508035Seqlist.txt

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|------------|------------|------------|------------|-------------|------------|-----|
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| aaagttatag | gcaatatcag | ctgcagtcgc | ctgtcctgct | acagcaacag | gtgcttagcc | 300 |
| catataatga | gttcgtaagg | cagcagtatg | gcatagcggc | aagccccttc | ttgcaatcag | 360 |
| ctgcatttca | actgagaaac | aaccaagtct | ggcaacagct | cgcgctgggtg | gcgcaacaat | 420 |
| ctcactatca | ggacattaac | attgttcagg | ccatagcgca | gcagctacaa | ctccagcagt | 480 |
| ttggtgatct | ctactttgat | cggaatctgg | ctcaagctca | gttggcctttt | aacgtgccat | 540 |
| ctagatatgg | tatctaccct | aggtactatg | gtgcacccag | taccattacc | acccttggcg | 600 |
| gtgtcttgta | atgtgtttta | acaaggtata | gtggttcgga | agttaaaaat | aagctcagat | 660 |
| atcatcatat | gtgacatgtg | aaactttggg | tgatataaat | agaaataaag | ttgtctt | 717 |

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 <212> PRT
 <213> Oryza sativa

<220>
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<400> 8
 Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Ala Ala Cys Ser
 1 5 10 15
 Ala Ser Ala Gln Phe Asp Val Leu Gly Gln Ser Tyr Arg Gln Tyr Gln
 20 25 30
 Leu Gln Ser Pro Val Leu Leu Gln Gln Gln Val Leu Ser Pro Tyr Asn
 35 40 45
 Glu Phe Val Arg Gln Gln Tyr Gly Ile Ala Ala Ser Pro Phe Leu Gln
 50 55 60
 Ser Ala Ala Phe Gln Leu Arg Asn Asn Gln Val Trp Gln Gln Leu Ala
 65 70 75 80
 Leu Val Ala Gln Gln Ser His Tyr Gln Asp Ile Asn Ile Val Gln Ala
 85 90 95
 Ile Ala Gln Gln Leu Gln Leu Gln Phe Gly Asp Leu Tyr Phe Asp
 100 105 110
 Arg Asn Leu Ala Gln Ala Gln Leu Ala Phe Asn Val Pro Ser Arg Tyr
 115 120 125
 Gly Ile Tyr Pro Arg Tyr Tyr Gly Ala Pro Ser Thr Ile Thr Thr Leu
 130 135 140
 Gly Gly Val Leu
 145

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<220>
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| ccactcccaa | cccagctccc | tttctccacc | taccggcccc | atccttctca | caactcaaac | 120 |
| attacagcga | aagcataaca | actagaatcc | taccacaatg | aagatcattt | tcttctttgc | 180 |
| tctccttgct | gaagctgcat | gtagcgccct | tgcgcagttt | gatgctgtta | ctcaagttta | 240 |
| caggcaatat | cagctgcagc | aacagatgct | tagcccatgc | ggtagattcg | taaggcagca | 300 |
| gtgcagcaca | gtggcaaccc | ccttctttcca | atcacccgtg | tttcaactga | gaaactgcca | 360 |
| agtcattgag | cagcagtgct | gccaacagct | caggatgatc | gcgcaacagt | ctcactgcca | 420 |
| ggccattagc | agtgttcagg | cgattgtgca | gcagctacag | ctacaacagt | tttctggcgt | 480 |
| ctacttcgat | caggctcaag | ctcaagccca | agctatgttg | ggcctaaact | tgccgtcaat | 540 |
| atgcggtatc | tacccaagct | acaacactgt | ccctgagatt | cctaccgtcg | gtgggtatctg | 600 |
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591508035Seqlist.txt

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20 25 30
Leu Gln Gln Gln Met Leu Ser Pro Cys Gly Glu Phe Val Arg Gln Gln
35 40 45
Cys Ser Thr Val Ala Thr Pro Phe Phe Gln Ser Pro Val Phe Gln Leu
50 55 60
Arg Asn Cys Gln Val Met Gln Gln Gln Cys Cys Gln Gln Leu Arg Met
65 70 75 80
Ile Ala Gln Gln Ser His Cys Gln Ala Ile Ser Ser Val Gln Ala Ile
85 90 95
Val Gln Gln Leu Gln Leu Gln Gln Phe Ser Gly Val Tyr Phe Asp Gln
100 105 110
Ala Gln Ala Gln Ala Gln Ala Met Leu Gly Leu Asn Leu Pro Ser Ile
115 120 125
Cys Gly Ile Tyr Pro Ser Tyr Asn Thr Val Pro Glu Ile Pro Thr Val
130 135 140
Gly Gly Ile Trp Tyr
145

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<212> DNA
<213> Oryza sativa

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<223> 13kD prolamin

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atatcaacta caatcgcatc tccagctaca gcaacaagtg ctcagcccat gcagtgaagt 180
cgtaaggcaa cagcatagca tagtggcaac ccccttctgg caaccagcta cgtttcaatt 240
gataaacaac caagtcatgc agcaacagtg ttgccaacag ctcaggctgg tagcgcaaca 300
atctcactac caggccatta gtagcgttca ggcgattgtg cagcaactac agctgcagca 360
ggtcggtggt gtctactttg atcagactca agctcaagct caagctttgc tggccttaaa 420
cttgccatcc atatgtggtg tctatcctaa ctactacatt gctccgagga gcattcccac 480
cgttggtgtg tctggtactg aattgtaata gtataatggt tcaaattgta aaaataaagt 540
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tatttaaata gcaaaaaaaaa aaaaaaaaaa 629

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<213> Oryza sativa

<220>
<223> 13kD prolamin

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Ala Ser Ala Arg Phe Asp Ala Leu Ser Gln Ser Tyr Arg Gln Tyr Gln
20 25 30
Leu Gln Ser His Leu Gln Leu Gln Gln Gln Val Leu Ser Pro Cys Ser

| | | | | | | | | | | | | | | | |
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| | | 35 | | | | | 40 | | | | | 45 | | | |
| Glu | Phe | Val | Arg | Gln | Gln | His | Ser | Ile | Val | Ala | Thr | Pro | Phe | Trp | Gln |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Pro | Ala | Thr | Phe | Gln | Leu | Ile | Asn | Asn | Gln | Val | Met | Gln | Gln | Gln | Cys |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Cys | Gln | Gln | Leu | Arg | Leu | Val | Ala | Gln | Gln | Ser | His | Tyr | Gln | Ala | Ile |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Ser | Ser | Val | Gln | Ala | Ile | Val | Gln | Gln | Leu | Gln | Leu | Gln | Gln | Val | Gly |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Val | Val | Tyr | Phe | Asp | Gln | Thr | Gln | Ala | Gln | Ala | Gln | Ala | Leu | Leu | Ala |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Leu | Asn | Leu | Pro | Ser | Ile | Cys | Gly | Ile | Tyr | Pro | Asn | Tyr | Tyr | Ile | Ala |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Pro | Arg | Ser | Ile | Pro | Thr | Val | Gly | Val | Ser | Gly | Thr | Glu | Leu | | |
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| <210> | 13 |
| <211> | 603 |
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| <213> | Oryza sativa |

<220>
<223> 13kD prolamin

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| attgttgcat | gcaatcgctc | tgcgcggttt | gatcctctta | gtcaaagtta | taggcaatat | | 120 |
| caactacagt | cgcattctct | actacagcaa | caagtgtcta | gccccatgag | tgagttcgta | | 180 |
| aggcaacagt | atagcatagt | ggcaaccccc | tcttggcaac | cagctactgt | tcaattgata | | 240 |
| acaacaacca | gtcatgcagca | gcagtgttgc | caacagctca | ggctggtagc | acaacaatct | | 300 |
| cactaccagg | ccattagtat | tgttcaagcg | attgtgcaac | agctacaact | gcagcaattt | | 360 |
| agtgggtgtc | actttgatca | gactcaagct | caagcccaaa | ctctgttgac | cttcaacttg | | 420 |
| ccatccatat | gtggtatcta | ccctaactac | tatagtgtct | ccaggagcat | tgccactggt | | 480 |
| ggtgggtgtc | ggtactgaat | tgtaacataa | taatagttcg | tatgttaaaa | ataaagtcac | | 540 |
| acatcatcat | gtgtgactgt | tgaacttag | ggtcatataa | atctaaataa | aatcatctta | | 600 |
| cct | | | | | | | 603 |

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| <210> | 14 |
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| <213> | Oryza sativa |

<220>
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| 1 | | | | 5 | | | | | 10 | | | | | 15 | | |
| Arg | Ser | Ala | Arg | Phe | Asp | Pro | Leu | Ser | Gln | Ser | Tyr | Arg | Gln | Tyr | Gln | |
| | | | 20 | | | | | 25 | | | | | 30 | | | |
| Leu | Gln | Ser | His | Leu | Leu | Leu | Gln | Gln | Gln | Val | Leu | Ser | Pro | Cys | Ser | |
| | | 35 | | | | | 40 | | | | | 45 | | | | |
| Glu | Phe | Val | Arg | Gln | Gln | Tyr | Ser | Ile | Val | Ala | Thr | Pro | Phe | Trp | Gln | |
| | 50 | | | | | 55 | | | | | 60 | | | | | |
| Pro | Ala | Thr | Phe | Gln | Leu | Ile | Asn | Asn | Gln | Val | Met | Gln | Gln | Gln | Cys | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| Cys | Gln | Gln | Leu | Arg | Leu | Val | Ala | Gln | Gln | Ser | His | Tyr | Gln | Ala | Ile | |
| | | | | 85 | | | | | 90 | | | | | 95 | | |
| Ser | Ile | Val | Gln | Ala | Ile | Val | Gln | Gln | Leu | Gln | Leu | Gln | Gln | Phe | Ser | |
| | | | 100 | | | | | 105 | | | | | 110 | | | |
| Gly | Val | Tyr | Phe | Asp | Gln | Thr | Gln | Ala | Gln | Ala | Gln | Thr | Leu | Leu | Thr | |
| | | 115 | | | | | 120 | | | | | 125 | | | | |
| Phe | Asn | Leu | Pro | Ser | Ile | Cys | Gly | Ile | Tyr | Pro | Asn | Tyr | Tyr | Ser | Ala | |

591508035Seq1ist.txt

130
Pro Arg Ser Ile Ala Thr Val Gly Gly Val Trp Tyr
145 150 155

<210> 15
<211> 601
<212> DNA
<213> Oryza sativa

<220>
<223> 13kD prolamin

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ataatgagtt cgtaaggcag cagtatagca ttgcggcaag caccttcttg caatcagctg 240
cgtttcaact gagaacaac caagtcttgc aacagctcag gctggtggcg caacaatctc 300
actaccagga cattaacgtt gtccaggcca tagcgcacca gctacacctc cagcagtttg 360
gcaatctcta cattgaccgg aatctggctc aagctcaagc actggttggt ttttaacttgc 420
catctacata tggatatctac ctttggctct atagtgcacc cgatagcatt accacccttg 480
gcggtgtctt gtactgaatt ttcacaatat tgtagtctcg aagtgaaaat ataagctcag 540
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<220>
<223> 13kD prolamin

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Val Gln Ser Pro Leu Leu Leu Gln Gln Val Leu Ser Pro Tyr Asn
35 40 45
Glu Phe Val Arg Gln Gln Tyr Ser Ile Ala Ala Ser Thr Phe Leu Gln
50 55 60
Ser Ala Ala Phe Gln Leu Arg Asn Asn Gln Val Leu Gln Gln Leu Arg
65 70 75 80
Leu Val Ala Gln Gln Ser His Tyr Gln Asp Ile Asn Val Val Gln Ala
85 90 95
Ile Ala His Gln Leu His Leu Gln Gln Phe Gly Asn Leu Tyr Ile Asp
100 105 110
Arg Asn Leu Ala Gln Ala Gln Ala Leu Leu Ala Phe Asn Leu Pro Ser
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Thr Tyr Gly Ile Tyr Pro Trp Ser Tyr Ser Ala Pro Asp Ser Ile Thr
130 135 140
Thr Leu Gly Gly Val Leu Tyr
145 150

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<212> DNA
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591508035Seqlist.txt

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atatcagctg cagtcgcctg tcctgctaca gcaacagggt cttagcccat ataatgagtt 180
cgtaaggcag cagtattggc tagcggcaag ccccttcttg caatcagctg cgtttcaact 240
gagaaacaac caagtctggc aacagctcgc gctgggtggc caacaatctc actatcagga 300
cattaacatt gttcaggcca tagcgcagca gctacaactc cagcagtttg gtgatctcta 360
ctttgatcgg aatctggctc aagctcaagc tctgttggct tttaacgtgc catctagata 420
tggtatctac cctaggtagt atggtgcacc cagtaccatt accacccttg gcggtgtctt 480
gtaatgagtt ttaacagtat agtggttcgg aagttaaaaa taagctcaga tatcatatat 540
gtgacatgtg aaactttggg tgatataaat agaaaaaaag ttgtctttca tatta 596

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```

<210> 18
<211> 150
<212> PRT
<213> Oryza sativa

```

```

<220>
<223> 13kd prolamin

```

```

<400> 18
Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Ala Ala Cys Ser
1      5      10      15
Ala Ser Ala Gln Phe Asp Val Leu Gly Gln Ser Tyr Arg Gln Tyr Gln
20      25      30
Leu Gln Ser Pro Val Leu Leu Gln Gln Val Leu Ser Pro Tyr Asn
35      40      45
Glu Phe Val Arg Gln Gln Tyr Gly Ile Ala Ala Ser Pro Phe Leu Gln
50      55      60
Ser Ala Ala Phe Gln Leu Arg Asn Asn Gln Val Trp Gln Gln Leu Ala
65      70      75      80
Leu Val Ala Gln Gln Ser His Tyr Gln Asp Ile Asn Ile Val Gln Ala
85      90      95
Ile Ala Gln Gln Leu Gln Leu Gln Gln Phe Gly Asp Leu Tyr Phe Asp
100     105     110
Arg Asn Leu Ala Gln Ala Gln Ala Leu Leu Ala Phe Asn Val Pro Ser
115     120     125
Arg Tyr Gly Ile Tyr Pro Arg Tyr Tyr Gly Ala Pro Ser Thr Ile Thr
130     135     140
Thr Leu Gly Gly Val Leu
145     150

```

```

<210> 19
<211> 616
<212> DNA
<213> Oryza sativa

```

```

<220>
<223> 13kd prolamin

```

```

<400> 19
cagttcaagc attatacagc aaaatagaaa gatctagtgt cccgcagcaa tgaagatcat 60
tttcgtcttt gctctccttg ctattgctgc atgcagcgcc tctcgcagtt tgattttagg 120
tcaaagttat aggcaatatc agctgcagtc gcctgtcctg ctacagcaac aggtgcttag 180
cccatataat gagttcgtaa gcagcagtat ggcatacggc aacccttctt tgcaatcagc 240
tgcgtttcaa ctgagaaaca accaagtctg gcaacagctc gcgctggtgg cgcaacaatc 300
tcactatcag gacattaaca ttgttcaggc catagcgagc cagctacaac tccagcagtt 360
tggtgatctc tactttgatc ggaatctggc tcaagctcaa gctctgttgg cttttaacgt 420
gccacctaaa tatggtatct accctaggta ctatggtgca cccagtacca ttaccaccct 480
tggcggtgtc ttgtaatgaa tttaacagta taatggtcgg aagttaaaaa taagctcaga 540
tattctcata tgtgacatgt gaaactttgg gtgatataaa taaaaaaaaa attgtctttc 600
ctatttaaaa aaaaaa
616

```


591508035Seqlist.txt

<210> 20
 <211> 148
 <212> PRT
 <213> Oryza sativa

<220>
 <223> 13kD prolamin

<400> 20
 Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Ala Ala Cys Ser
 1 5 10 15
 Ala Ser Arg Ser Leu Ile Leu Gly Gln Ser Tyr Arg Gln Tyr Gln Leu
 20 25 30
 Gln Ser Pro Val Leu Leu Gln Gln Val Leu Ser Pro Tyr Asn Glu
 35 40 45
 Phe Val Ser Ser Ser Met Ala Tyr Gly Asn Pro Phe Leu Gln Ser Ala
 50 55 60
 Ala Phe Gln Leu Arg Asn Asn Gln Val Trp Gln Gln Leu Ala Leu Val
 65 70 75 80
 Ala Gln Gln Ser His Tyr Gln Asp Ile Asn Ile Val Gln Ala Ile Ala
 85 90 95
 Gln Gln Leu Gln Leu Gln Gln Phe Gly Asp Leu Tyr Phe Asp Arg Asn
 100 105 110
 Leu Ala Gln Ala Gln Ala Leu Leu Ala Phe Asn Val Pro Pro Lys Tyr
 115 120 125
 Gly Ile Tyr Pro Arg Tyr Tyr Gly Ala Pro Ser Thr Ile Thr Thr Leu
 130 135 140
 Gly Gly Val Leu
 145

<210> 21
 <211> 769
 <212> DNA
 <213> Oryza sativa

<220>
 <223> 13kD prolamin

<220>
 <221> misc_feature
 <222> (11)..(11)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (109)..(109)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (207)..(207)
 <223> n is a, c, g, or t

<400> 21
 ttgctccttc nccgtcctcc ccgcttgggc tcttgggcgc ccgttccggg cgccccctcc 60
 ctccctccctc cgcggtaccc ggccgcctca ctccctctgt ggacccccng gccgccccgg 120
 gccgcgcccc atcccgggtgc gcgacccatc gttcacacag ttcaagcatt atacagaaaa 180
 atagaaagat ctagtgtccc gcagcanatg aagatcattt tcgtctttgc tctccttgct 240
 attgctgcat gcaggcctct gccgagtttg atgttttttag gtcaaagtta taggcaatat 300
 cagctgcagt cgctgtcct gctacagcaa caggtgctta gcccatataa tgagttcgta 360
 aggcagcagt atggcatagc ggcaagcccc ttcttgcaat cagctgcatt tcaactgaga 420
 aataaccaag tctggcaaca tcaggctggt ggccaacaat ctcgctatca ggacattaac 480
 attgttcagg ccatagcgta cgagctacaa ctccagcaat ttggtgatct ctactttgat 540

591508035Seq1ist.txt

| | | | | | | |
|------------|-------------|------------|-------------|------------|-------------|-----|
| cggaatcagg | ctcaagctca | agctctattg | gctttttaacg | tgccatctag | atatgggtatc | 600 |
| taccctaggt | actatgggtgc | acccagtacc | attaccaccc | ttggcggtgt | cttgtaatgt | 660 |
| gttttaacag | tatagtgggt | cggaagttaa | aaataagctc | agatatcatc | atatgtgaca | 720 |
| tgtgaaactt | tgggtgatat | aaatagaaat | aaagttgcct | ttcatattt | | 769 |

<210> 22
 <211> 149
 <212> PRT
 <213> Oryza sativa

<220>
 <223> 13kD prolamin

<400> 22
 Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Ala Ala Cys Arg
 1 5 10 15
 Pro Leu Pro Ser Leu Met Phe Leu Gly Gln Ser Tyr Arg Gln Tyr Gln
 20 25 30
 Leu Gln Ser Pro Val Leu Leu Gln Gln Gln Val Leu Ser Pro Tyr Asn
 35 40 45
 Glu Phe Val Arg Gln Gln Tyr Gly Ile Ala Ala Ser Pro Phe Leu Gln
 50 55 60
 Ser Ala Ala Phe Gln Leu Arg Asn Asn Gln Val Trp Gln His Gln Ala
 65 70 75 80
 Gly Gly Gln Gln Ser Arg Tyr Gln Asp Ile Asn Ile Val Gln Ala Ile
 85 90 95
 Ala Tyr Glu Leu Gln Leu Gln Gln Phe Gly Asp Leu Tyr Phe Asp Arg
 100 105 110
 Asn Gln Ala Gln Ala Gln Ala Leu Leu Ala Phe Asn Val Pro Ser Arg
 115 120 125
 Tyr Gly Ile Tyr Pro Arg Tyr Tyr Gly Ala Pro Ser Thr Ile Thr Thr
 130 135 140
 Leu Gly Gly Val Leu
 145

<210> 23
 <211> 609
 <212> DNA
 <213> Oryza sativa

<220>
 <223> 13kD prolamin

<400> 23
 aagcattata caacaaaaat ttaaaagaac tagtgctctg caacaatgaa gatcattttc 60
 gtcttttgctc tccttgctat tgctgcatgc gccacagcgc agtttgatgt tttagggtcaa 120
 aatattaggc aatatcaggt gcagtcgcct ctcttgctac agcaacaggt gcttagccta 180
 tataatgagt tcgtaaggca gcagtatagc attgcggcaa gcccttctt gcaatcagct 240
 gtgtttcaac tgagaaacaa ccaagtcttg caacagctca ggctggtggc gcaacaatct 300
 cactaccagg acattaacgt tgtccaggcc atagcgcagc agctacacct ccagcagttt 360
 ggcgatctct acattgaccg gaatctggct caagcgcaac gactggtggc ttttaacttg 420
 ccatctacat atggtatcta ccctaggtac tatagagcac cgggtagtat taccaccctt 480
 ggcggtgtct tgtactgaat tttcacaata ttgtagttcg gaagtgaata tataagcctc 540
 aggtatcatc gtatgtgaca tgtgaaactt aaggtgatat aaatagaaat aaaattatct 600
 ttcatattt 609

<210> 24
 <211> 150
 <212> PRT
 <213> Oryza sativa

<220>
 <223> 13kD prolamin

591508035Seqlist.txt

<400> 24
 Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Ala Ala Cys Ala
 1 5 10 15
 Thr Ala Gln Phe Asp Val Leu Gly Gln Asn Ile Arg Gln Tyr Gln Val
 20 25 30
 Gln Ser Pro Leu Leu Leu Gln Gln Val Leu Ser Leu Tyr Asn Glu
 35 40 45
 Phe Val Arg Gln Gln Tyr Ser Ile Ala Ala Ser Pro Phe Leu Gln Ser
 50 55 60
 Ala Val Phe Gln Leu Arg Asn Asn Gln Val Leu Gln Gln Leu Arg Leu
 65 70 75 80
 Val Ala Gln Gln Ser His Tyr Gln Asp Ile Asn Val Val Gln Ala Ile
 85 90 95
 Ala Gln Gln Leu His Leu Gln Gln Phe Gly Asp Leu Tyr Ile Asp Arg
 100 105 110
 Asn Leu Ala Gln Ala Gln Arg Leu Leu Ala Phe Asn Leu Pro Ser Thr
 115 120 125
 Tyr Gly Ile Tyr Pro Arg Tyr Tyr Arg Ala Pro Gly Ser Ile Thr Thr
 130 135 140
 Leu Gly Gly Val Leu Tyr
 145 150

<210> 25
 <211> 596
 <212> DNA
 <213> Oryza sativa

<220>
 <223> 13kd prolamin

<400> 25
 ccagcaaaat agaaagatct agtgtccgc agcaatgaag atcattttcg tctttgctct 60
 ccttgctatt gctgcatgca ggcctctgca gtttgatgtt ttaggtcaaa gttataggca 120
 atatcagctg cagtcgcctg tcctgctaca gcaacatgtg cttagcccat ataatgagtt 180
 cgtaaggcag cagtatggca tagcggcaag ccccttcttg caatcagctg cgtttcaact 240
 gaaaaacaac caagtctggc aacagctcgc gctggtggcg caacaatctc actatcagga 300
 cattaacatt gttcaggcca tagcgcagca gctacaactc cagcagtttg gtgatctcta 360
 ctttgatcgg aatctggctc aagctcaagc tctggtggct tttaacgtgc catctagata 420
 tggtatctac cctaggtagt atggtgcacc cagtaccatt accacccttg gcggtgtctt 480
 gtaatgagtt ttaacagtat agtggttcgg aagataaaaa taagctcaga tatcatcata 540
 tgtgacatgt gaaactttgg gtgatataaa tagaaaaaaa gttgtctttc atattt 596

<210> 26
 <211> 149
 <212> PRT
 <213> Oryza sativa

<220>
 <223> 13kd prolamin

<400> 26
 Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Ala Ala Cys Arg
 1 5 10 15
 Pro Leu Gln Phe Asp Val Leu Gly Gln Ser Tyr Arg Gln Tyr Gln Leu
 20 25 30
 Gln Ser Pro Val Leu Leu Gln Gln His Val Leu Ser Pro Tyr Asn Glu
 35 40 45
 Phe Val Arg Gln Gln Tyr Gly Ile Ala Ala Ser Pro Phe Leu Gln Ser
 50 55 60
 Ala Ala Phe Gln Leu Arg Asn Asn Gln Val Trp Gln Gln Leu Ala Leu
 65 70 75 80
 Val Ala Gln Gln Ser His Tyr Gln Asp Ile Asn Ile Val Gln Ala Ile

591508035Seqlist.txt

85 90 95
 Ala Gln Gln Leu Gln Leu Gln Gln Phe Gly Asp Leu Tyr Phe Asp Arg
 100 105 110
 Asn Leu Ala Gln Ala Gln Ala Leu Leu Ala Phe Asn Val Pro Ser Arg
 115 120 125
 Tyr Gly Ile Tyr Pro Arg Tyr Tyr Gly Ala Pro Ser Thr Ile Thr Thr
 130 135 140
 Leu Gly Gly Val Leu
 145

<210> 27
 <211> 285
 <212> DNA
 <213> Oryza sativa

<220>
 <223> 13kD prolamin

<400> 27
 gttcgttaagg caacagtata gcatagtggc aaccccccttc tggcaaccag ctacgtttca 60
 ttgataaac aaccaagtca tgcagcagca gttttgccaa cagctcaggc tggtagcaca 120
 acattctcac taccaggcca ttagtattgt tcaagcgatt gtgcaacagc tacaactgca 180
 gcattttagt ggtgtctact ttgatcagac tcaagctcaa gcccaaactt ttttgacctt 240
 caactttccc atccatatgt ggtatctacc ttaacttact attgt 285

<210> 28
 <211> 94
 <212> PRT
 <213> Oryza sativa

<220>
 <223> 13kD prolamin

<400> 28
 Phe Val Arg Gln Gln Tyr Ser Ile Val Ala Thr Pro Phe Trp Gln Pro
 1 5 10 15
 Ala Thr Phe His Leu Ile Asn Asn Gln Val Met Gln Gln Gln Phe Cys
 20 25 30
 Gln Gln Leu Arg Leu Val Ala Gln His Ser His Tyr Gln Ala Ile Ser
 35 40 45
 Ile Val Gln Ala Ile Val Gln Gln Leu Gln Leu Gln His Phe Ser Gly
 50 55 60
 Val Tyr Phe Asp Gln Thr Gln Ala Gln Ala Gln Thr Phe Leu Thr Phe
 65 70 75 80
 Asn Phe Pro Ser Ile Cys Gly Ile Tyr Leu Asn Leu Leu Leu
 85 90

<210> 29
 <211> 1836
 <212> DNA
 <213> Oryza sativa

<220>
 <223> 13kD prolamin

<400> 29
 tccacatggg acggggccaa ggtgaggaaa gcaagctgca caaaggatta aagttcttgt 60
 aaacttgaaa ctcaatttga gtgtttatcc tagctaatat gatcccttca tcctagaata 120
 taacaatcta gaattagatg tgctatctaa acacattgta gtaggtaatg tgtcatctaa 180
 tcttagatat aatctaaaac ggaaggtgaa acggaggag tacctacata gtaatggcat 240
 gcctatgttg cttaatttga cccgtgcagc tgagtatatg tgatggagac aaaagttact 300
 ttcatgatgg caccaaagga gatttggttg ggtgcctaag agaacatcga tccaaatgac 360
 acgacacact tagattctaa taggacatcc aagcaaaaca acacttagat cctaatagga 420

591508035Seq1ist.txt

| | | | | | | |
|-------------|-------------|------------|-------------|-------------|------------|------|
| catccaagca | aaactaacac | tctagagcaa | ccgataagga | attgaaaaag | tttgtccatc | 480 |
| attctttgaca | agaggtagtg | tacaaaaaaa | atatttagtt | gagctctcgc | tcactacgca | 540 |
| tcacagaagt | ataacctaga | tataattaat | tcagtataga | agcaaaaatt | cagcagcaac | 600 |
| aatgagggtg | aaaactagaa | agaaggattt | atgatgttcc | tcagttttatt | cagtcgcaaa | 660 |
| agatagttta | ctgtaaacia | aatggataat | aaacctgatg | tttcaacaaa | actagaggaa | 720 |
| ctctgtaaat | tgtccagggt | catccctaga | agtttggtttc | tccttacggg | aggagggagt | 780 |
| atatgtgatg | gacacaaaag | ttactttcat | gatgaaacca | aagggtatgt | gttggggcac | 840 |
| ctaacagaac | atctatctaa | atgacatgac | tcacttagat | cctaataagga | catccaagca | 900 |
| aaactaacac | tctaaagcaa | ccgatgagga | attgaaagaa | aatatatgcc | atcgcatcta | 960 |
| taaatagaca | agcccaatga | aaaccctcct | catcgttttac | acagttcaag | cattatacag | 1020 |
| aaaagaagat | ctagtgtccc | gcagcaatga | agatcatttt | ccgtctttgc | tctccttgct | 1080 |
| attgctgcat | gcaacacctc | tgcgtagtgt | atgttttagg | tcaaagttat | aggcaatatc | 1140 |
| agctacagtc | gcctctccta | caacaacaac | aggtgcttag | cccatataat | gacttcgtaa | 1200 |
| ggcagcgata | tggcatagcg | gcaagcccct | tcttgcaatc | agctgcgttt | aaactgagaa | 1260 |
| ataaccaagt | ctggcaacag | ctcgggctgg | tggcgcaaca | atctcactat | caggacatta | 1320 |
| acattgtttca | ggccatagcg | cagcagctat | aactccagca | gttttggtgat | ctctactttg | 1380 |
| atcgggaatcc | ggctcaagct | caagctctgt | tggcttttaa | cgtgccatct | agatatggta | 1440 |
| tctaccctag | gtactatagt | acaccagta | ccattaccac | ccttggcggg | gtcttgtaat | 1500 |
| gagtttttaac | agtatagtgg | ttcgggaagt | aaaaataagc | tcatatatta | tcatatgtga | 1560 |
| catgtgaaat | ttgggggtgaa | ataaatcgaa | ataaagttgt | ctttcatatt | taaataccat | 1620 |
| gcctctataa | ggatatatcc | tagtacattg | tcgtaactaa | ttaccatcat | cggtactcta | 1680 |
| caatttttact | gtgttctttac | attcgatccg | aagctacttt | gtttttaaga | tataaatgga | 1740 |
| gcgtataaag | gatgtccgtc | ctttcatttc | aataagaaca | atgtaacatc | ctgaaaatgt | 1800 |
| gtcattttct | aatcctgcat | catgccgact | cttatg | | | 1836 |

<210> 30
 <211> 101
 <212> PRT
 <213> Oryza sativa

<220>
 <223> 13kd prolamin

<400> 30
 Met Lys Ile Ile Phe Arg Leu Cys Ser Pro Cys Tyr Cys Cys Met Gln
 1 5 10 15
 His Leu Cys Val Val Asp Val Leu Gly Gln Ser Tyr Arg Gln Tyr Gln
 20 25 30
 Leu Gln Ser Pro Leu Leu Gln Gln Gln Val Leu Ser Pro Tyr Asn
 35 40 45
 Asp Phe Val Arg Gln Arg Tyr Gly Ile Ala Ala Ser Pro Phe Leu Gln
 50 55 60
 Ser Ala Ala Phe Lys Leu Arg Asn Asn Gln Val Trp Gln Gln Leu Gly
 65 70 75 80
 Leu Val Ala Gln Gln Ser His Tyr Gln Asp Ile Asn Ile Val Gln Ala
 85 90 95
 Ile Ala Gln Gln Leu
 100

<210> 31
 <211> 622
 <212> DNA
 <213> Oryza sativa

<220>
 <223> 16kd prolamin

| | | | | | | |
|------------|-------------|-------------|-------------|------------|------------|-----|
| <400> 31 | | | | | | |
| aaacatcaaa | acgtttataag | agttctcttag | catccatcac | atagccatga | agatctttgt | 60 |
| catcctctct | ctcctcgccc | tcgcagcgag | cagcgccctcg | gcacagtttg | atgcttgcac | 120 |
| ctatgggcaa | tgccagcagc | agccgtttat | gcaaccgatc | atgaaccctg | gcaatgagtt | 180 |
| cgtgaggcaa | cagtgacgac | cgatgagcct | accttgggaag | cagtcacgca | ggctacaact | 240 |
| gagcagctgc | caggtgatgc | ggcagcaatg | ctgtcagcag | atgaggttga | tggcgcaaca | 300 |

591508035Seq1ist.txt

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|-----|
| atatcattgc | caggctat | gcaccatggt | gcagtctatc | atgcagcaag | tgcaagtttga | 360 |
| tgctggcttt | gttggcgagc | cccaagctca | ggcccaggcc | cagggtggctc | tcaatttgcc | 420 |
| ctccatgtgt | ggagtctacc | ctaggtactg | cagcactcca | tgcaaagttg | ctactgggtca | 480 |
| ttgctggctt | tggtagtgtg | taccatcata | tatatatagt | tggaataata | aagtgtcaca | 540 |
| catcatcgtg | tgtgtcatgt | aataaaat | ggaatagtct | ttggctgttc | gtatgaataa | 600 |
| atgaaaatta | taacaaaaa | aa | | | | 622 |

<210> 32
 <211> 149
 <212> PRT
 <213> Oryza sativa

<220>
 <223> 16kD prolamin

<400> 32
 Met Lys Ile Phe Val Ile Leu Ser Leu Leu Ala Leu Ala Ala Ser Ser
 1 5 10 15
 Ala Ser Ala Gln Phe Asp Ala Cys Thr Tyr Gly Gln Cys Gln Gln Gln
 20 25 30
 Pro Phe Met Gln Pro Ile Met Asn Pro Cys Asn Glu Phe Val Arg Gln
 35 40 45
 Gln Cys Ser Pro Met Ser Leu Pro Trp Lys Gln Ser Arg Arg Leu Gln
 50 55 60
 Leu Ser Ser Cys Gln Val Met Arg Gln Gln Cys Gln Gln Met Arg
 65 70 75 80
 Leu Met Ala Gln Gln Tyr His Cys Gln Ala Ile Cys Thr Met Val Gln
 85 90 95
 Ser Ile Met Gln Gln Val Gln Phe Asp Ala Gly Phe Val Gly Glu Pro
 100 105 110
 Gln Ala Gln Ala Gln Ala Gln Val Ala Leu Asn Leu Pro Ser Met Cys
 115 120 125
 Gly Val Tyr Pro Arg Tyr Cys Ser Thr Pro Cys Lys Val Ala Thr Gly
 130 135 140
 His Cys Gly Ser Trp
 145

<210> 33
 <211> 562
 <212> DNA
 <213> Oryza sativa

<220>
 <223> 10kD prolamin

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cgtctacacc | atctggaatc | ttgtttaaca | ctagtattgt | agaatcagca | atggcagcat | 60 |
| acaccagcaa | gatctttgcc | ctgtttgcct | taattgctct | ttctgcaagt | gccactactg | 120 |
| caatcaccac | tatgcagtat | ttcccaccaa | cattagccat | gggcacatg | gatccgtgta | 180 |
| ggcagtacat | gatgcaaacg | ttgggcatgg | gtagctccac | agccatgttc | atgtcgcagc | 240 |
| caatggcgct | cctgcagcag | caatgttgca | tcagctaca | aggcatgatg | cctcagtgcc | 300 |
| actgtggcac | cagttgccag | atgatgcaga | gcatgcaaca | agttatttgt | gctggactcg | 360 |
| ggcagcagca | gatgatgaag | atggcgatgc | agatgccata | catgtgcaac | atggcccctg | 420 |
| tcaacttcca | actctcttcc | tgtggttgtt | gttgatcaaa | cgttggttac | atgtactcta | 480 |
| gtaataaggt | gttgcatact | atcgtgtgca | aacactagaa | ataagaacca | ttgaataaaa | 540 |
| tatcaatcat | tttcagactt | gc | | | | 562 |

<210> 34
 <211> 134
 <212> PRT
 <213> Oryza sativa

<220>

<223> 10kd prolamin

<400> 34

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Met Ala Ala Tyr Thr Ser Lys Ile Phe Ala Leu Phe Ala Leu Ile Ala
1      5      10      15
Leu Ser Ala Ser Ala Thr Thr Ala Ile Thr Thr Met Gln Tyr Phe Pro
      20      25      30
Pro Thr Leu Ala Met Gly Thr Met Asp Pro Cys Arg Gln Tyr Met Met
      35      40      45
Gln Thr Leu Gly Met Gly Ser Ser Thr Ala Met Phe Met Ser Gln Pro
      50      55      60
Met Ala Leu Leu Gln Gln Gln Cys Cys Met Gln Leu Gln Gly Met Met
65      70      75      80
Pro Gln Cys His Cys Gly Thr Ser Cys Gln Met Met Gln Ser Met Gln
      85      90      95
Gln Val Ile Cys Ala Gly Leu Gly Gln Gln Gln Met Met Lys Met Ala
      100      105      110
Met Gln Met Pro Tyr Met Cys Asn Met Ala Pro Val Asn Phe Gln Leu
      115      120      125
Ser Ser Cys Gly Cys Cys
130

```

<210> 35

<211> 332

<212> DNA

<213> Oryza rufipogon

<220>

<223> 10kd prolamin

<400> 35

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aattgctctt tctgcaagtg ccactactgc aatcaccact atgcagtatt tcccaccaac      60
attagccatg ggcaccatgg atccgtgtag gcagtacatg atgcaaactg tgggcatggg      120
tagctccaca gccatgttca tgtcgagacc aatggcgctc ctgcagcagc aatgtttgat      180
gcagctacaa ggcattgatgc ctgagtgcga ctgtggcacc agttgccaga tgatgcagag      240
catgcaacaa gttattttgtg ctggactcgg gcagcagcag atgatgaaga tggcgatgca      300
gatgccatac atgtgcaaca tggcccctgt ca                                332

```

<210> 36

<211> 110

<212> PRT

<213> Oryza rufipogon

<220>

<223> 10kd prolamin

<400> 36

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Ile Ala Leu Ser Ala Ser Ala Thr Thr Ala Ile Thr Thr Met Gln Tyr
1      5      10      15
Phe Pro Pro Thr Leu Ala Met Gly Thr Met Asp Pro Cys Arg Gln Tyr
      20      25      30
Met Met Gln Thr Leu Gly Met Gly Ser Ser Thr Ala Met Phe Met Ser
      35      40      45
Gln Pro Met Ala Leu Leu Gln Gln Gln Cys Cys Met Gln Leu Gln Gly
      50      55      60
Met Met Pro Gln Cys His Cys Gly Thr Ser Cys Gln Met Met Gln Ser
65      70      75      80
Met Gln Gln Val Ile Cys Ala Gly Leu Gly Gln Gln Gln Met Met Lys
      85      90      95
Met Ala Met Gln Met Pro Tyr Met Cys Asn Met Ala Pro Val
      100      105      110

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<210> 37

591508035Seqlist.txt

<211> 349
<212> DNA
<213> Oryza longistaminata

<220>
<223> 10kD prolamin

<220>
<221> misc_feature
<222> (18)..(19)
<223> n is a, c, g, or t

<400> 37
ccctgtttgc ctttaattntt cttcttttctg caagtgccac tactgcaatc actactatgc 60
agtattttccc accaacatta gccatgggca ccatggatcc gtgtaggcag tacatgatgc 120
aaacgttggg catgggtagc tccacaacca tgttcattgt gcagccaatg gcgctcctgc 180
agcagcaatg ttgcatgcag ctacaaggca tgatgcctca gtgccactgt ggcaccagtt 240
gccagatgat gcagagcatg caacaagttg tttgtgctgg actcgggcag cagcagatga 300
tgatgaagat ggcaatgcag atgccataca tgtgcaacat ggcccctgt 349

<210> 38
<211> 116
<212> PRT
<213> Oryza longistaminata

<220>
<223> 10kD prolamin

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa can be any naturally occurring amino acid

<400> 38
Leu Phe Ala Leu Ile Xaa Leu Leu Ser Ala Ser Ala Thr Thr Ala Ile
1 5 10 15
Thr Thr Met Gln Tyr Phe Pro Pro Thr Leu Ala Met Gly Thr Met Asp
20 25 30
Pro Cys Arg Gln Tyr Met Met Gln Thr Leu Gly Met Gly Ser Ser Thr
35 40 45
Thr Met Phe Met Ser Gln Pro Met Ala Leu Leu Gln Gln Gln Cys Cys
50 55 60
Met Gln Leu Gln Gly Met Met Pro Gln Cys His Cys Gly Thr Ser Cys
65 70 75 80
Gln Met Met Gln Ser Met Gln Gln Val Val Cys Ala Gly Leu Gly Gln
85 90 95
Gln Gln Met Met Met Lys Met Ala Met Gln Met Pro Tyr Met Cys Asn
100 105 110
Met Ala Pro Val
115

<210> 39
<211> 343
<212> DNA
<213> Oryza rufipogon

<220>
<223> 10kD prolamin

<400> 39
ctgttttgct taattgctct ttctgcaagt gccactactg caatcaccac tatgcagtat 60
ttcccaccaa ctaggcatg gggcaccatg gatccgtgta ggcagtacat gatgcaaagc 120
ttgggcatgg gtagctccac agccatgttc atgtcgcagc caatggcgct cctgcagcag 180

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caatgtttgca tgcagctaca aggcattgatg cctcagtgcc actgtggcac cagttgccag 240
 atgatgcaga gcatgcaaca agttatttgt gctggactcg ggcagcagca gatgatgaag 300
 atggcgatgc agatgccata catgtgcaac atggcccctg tca 343

<210> 40
 <211> 113
 <212> PRT
 <213> Oryza rufipogon

<220>
 <223> 10kD prolamin

<400> 40
 Leu Phe Ala Leu Ile Ala Leu Ser Ala Ser Ala Thr Thr Ala Ile Thr
 1 5 10 15
 Thr Met Gln Tyr Phe Pro Pro Thr Leu Ala Met Gly Thr Met Asp Pro
 20 25 30
 Cys Arg Gln Tyr Met Met Gln Thr Leu Gly Met Gly Ser Ser Thr Ala
 35 40 45
 Met Phe Met Ser Gln Pro Met Ala Leu Leu Gln Gln Gln Cys Cys Met
 50 55 60
 Gln Leu Gln Gly Met Met Pro Gln Cys His Cys Gly Thr Ser Cys Gln
 65 70 75 80
 Met Met Gln Ser Met Gln Gln Val Ile Cys Ala Gly Leu Gly Gln Gln
 85 90 95
 Gln Met Met Lys Met Ala Met Gln Met Pro Tyr Met Cys Asn Met Ala
 100 105 110
 Pro

<210> 41
 <211> 339
 <212> DNA
 <213> Oryza rufipogon

<220>
 <223> 10kD prolamin

<400> 41
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 ccaccaacat tagccatggg caccatggat ccgtgtaggc agtacatgat gcaaacgttg 120
 ggcattgggta gctccacagc catgttcatg tcgcagccaa tggcgctcct gcagcagcaa 180
 tgttgcatgc agctacaagg catgatgcct cagtgccact gtggcaccag ttgccagatg 240
 atgcagagca tgcaacaagt tatttgtgct ggactcgggc agcagcagat gatgaagatg 300
 gcgatgcaga tgccatacat gtgcaacatg gccctgtgc 339

<210> 42
 <211> 113
 <212> PRT
 <213> Oryza rufipogon

<220>
 <223> 10kD prolamin

<400> 42
 Phe Ala Leu Ile Ala Leu Ser Ala Ser Ala Thr Thr Ala Ile Thr Thr
 1 5 10 15
 Met Gln Tyr Phe Pro Pro Thr Leu Ala Met Gly Thr Met Asp Pro Cys
 20 25 30
 Arg Gln Tyr Met Met Gln Thr Leu Gly Met Gly Ser Ser Thr Ala Met
 35 40 45
 Phe Met Ser Gln Pro Met Ala Leu Leu Gln Gln Gln Cys Cys Met Gln
 50 55 60
 Leu Gln Gly Met Met Pro Gln Cys His Cys Gly Thr Ser Cys Gln Met

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65 Met Gln Ser Met Gln Val Ile Cys Ala Gly Leu Gly Gln Gln Gln 80
 70 75 80
 85 90 95
 Met Met Lys Met Ala Met Gln Met Pro Tyr Met Cys Asn Met Ala Pro
 100 105 110
 Val

<210> 43
 <211> 343
 <212> DNA
 <213> Oryza rufipogon

<220>
 <223> 10kD prolamin

<220>
 <221> misc_feature
 <222> (19)..(19)
 <223> n is a, c, g, or t

<400> 43
 ccctgtttgc ctttaattgnt ctttctgcaa gtgccactac tgcaatcacc actatgcagt 60
 atttcccacc aacattagcc atgggcacca tggatccgtg taggcagtag atgatgcaaa 120
 cgttgggcat gggtagctcc acagccatgt tcatgtcgca gccaatggcg ctcctgcagc 180
 agcaatgttg catgcagcta caaggcatga tgcctcagtg ccactgtggc accagttgcc 240
 agatgatgca gagcatgcaa caagttatgt gtgctggact cgggcagcag cagatgatga 300
 agatggcgat gcagatgcca tacatgtgca acatggcccc tgt 343

<210> 44
 <211> 114
 <212> PRT
 <213> Oryza rufipogon

<220>
 <223> 10kD prolamin

<220>
 <221> misc_feature
 <222> (6)..(6)
 <223> Xaa can be any naturally occurring amino acid

<400> 44
 Leu Phe Ala Leu Ile Xaa Leu Ser Ala Ser Ala Thr Thr Ala Ile Thr
 1 5 10 15
 Thr Met Gln Tyr Phe Pro Pro Thr Leu Ala Met Gly Thr Met Asp Pro
 20 25 30
 Cys Arg Gln Tyr Met Met Gln Thr Leu Gly Met Gly Ser Ser Thr Ala
 35 40 45
 Met Phe Met Ser Gln Pro Met Ala Leu Leu Gln Gln Gln Cys Cys Met
 50 55 60
 Gln Leu Gln Gly Met Met Pro Gln Cys His Cys Gly Thr Ser Cys Gln
 65 70 75 80
 Met Met Gln Ser Met Gln Gln Val Ile Cys Ala Gly Leu Gly Gln Gln
 85 90 95
 Gln Met Met Lys Met Ala Met Gln Met Pro Tyr Met Cys Asn Met Ala
 100 105 110
 Pro Val

<210> 45
 <211> 533
 <212> DNA
 <213> Oryza sativa

591508035Seqlist.txt

<220>

<223> 10kD prolamin

<400> 45

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| atggcagcat | acaccagcaa | gatctttgcc | ctgtttgcct | taattgctct | ttctgcaagt | 60 |
| gccactactg | caatcaccac | tatgcagtat | ttcccaccaa | cattagccat | gggcaccatg | 120 |
| gatccgtgta | ggcagtacat | gatgcaaacg | ttgggcatgg | gtagctccac | agccatgttc | 180 |
| atgtcgcagc | caatggcgct | cctgctgcag | caatgttgca | tcagctaca | aggcatgatg | 240 |
| cctcagtgcc | actgtggcac | cagttgccag | atgatgcaga | gcatgcaaca | agttatttgt | 300 |
| gctggactcg | ggcagcagca | gatgatgaag | atggcgatgc | agatgccata | catgtgcaac | 360 |
| atggccccctg | tcaacttcca | actctcttcc | tgtggttgtt | gttgatgaaa | cgttggttac | 420 |
| atgtactcta | gtaataaggt | gttgcatact | atcgtgtgca | aacactagaa | ataagtacca | 480 |
| ttgaataaaa | tatcaaacat | tttcagactt | gcaaaaaaaaa | aaaaaaaaaa | aaa | 533 |

<210> 46

<211> 134

<212> PRT

<213> Oryza sativa

<220>

<223> 10kD prolamin

<400> 46

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Ala | Tyr | Thr | Ser | Lys | Ile | Phe | Ala | Leu | Phe | Ala | Leu | Ile | Ala |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |
| Leu | Ser | Ala | Ser | Ala | Thr | Thr | Ala | Ile | Thr | Thr | Met | Gln | Tyr | Phe | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Pro | Thr | Leu | Ala | Met | Gly | Thr | Met | Asp | Pro | Cys | Arg | Gln | Tyr | Met | Met |
| | | 35 | | | | | 40 | | | | 45 | | | | |
| Gln | Thr | Leu | Gly | Met | Gly | Ser | Ser | Thr | Ala | Met | Phe | Met | Ser | Gln | Pro |
| | 50 | | | | 55 | | | | | | 60 | | | | |
| Met | Ala | Leu | Leu | Leu | Gln | Cys | Cys | Met | Gln | Leu | Gln | Gly | Met | Met | |
| 65 | | | | | 70 | | | 75 | | | | | | 80 | |
| Pro | Gln | Cys | His | Cys | Gly | Thr | Ser | Cys | Gln | Met | Met | Gln | Ser | Met | Gln |
| | | | 85 | | | | | 90 | | | | | 95 | | |
| Gln | Val | Ile | Cys | Ala | Gly | Leu | Gly | Gln | Gln | Gln | Met | Met | Lys | Met | Ala |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Met | Gln | Met | Pro | Tyr | Met | Cys | Asn | Met | Ala | Pro | Val | Asn | Phe | Gln | Leu |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Ser | Ser | Cys | Gly | Cys | Cys | | | | | | | | | | |
| | | 130 | | | | | | | | | | | | | |

<210> 47

<211> 940

<212> DNA

<213> Oryza sativa

<220>

<223> 10kDa prolamin promoter

<400> 47

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| aatttagatc | tatacatccg | ttggtacatc | tctactactc | tagtactaaa | aacatgagat | 60 |
| ctgaacatgg | ctgcataggt | tctccatccc | aattcaccct | gcagtgatcg | ctgcactgga | 120 |
| taattataat | atcagttaaa | attgaaaata | atgcaacttc | atacttgcat | ggtgtcagta | 180 |
| gtgcctgcct | aagaaatgtg | tcttgtcata | atatgattac | atgaaatatg | tttacttcct | 240 |
| tcgtttctct | ttatttgtaa | gataaagaac | tagatatgtg | gaaagtagga | tagcaaagag | 300 |
| tatggccaaa | ctctaattct | tgctttattt | tttgggatgg | acccaaaatt | tgtttctcct | 360 |
| ttactttctt | ccctttacaa | caatgttctt | tactttccaa | tcttattaac | aaaactccaa | 420 |
| atacatgcca | aactgcatat | gtatgtatgc | tattaaggca | catttacaaa | gctccaagtt | 480 |
| tacctactca | atcattcaca | tatggcgatg | actcaaactc | ttaattgtta | tctgtgtaag | 540 |
| ctgtgacttg | tgtaacacat | tctacaagtc | ccatacgaat | tctgttcaca | aaagtttctt | 600 |
| tgtccagctc | ataatttaca | aaactgcaaa | atgccaaagc | aatctggcac | aaccttatca | 660 |
| tcatattttc | tttccacgca | ttaaagcact | ggcagaatta | tctttgtgta | gatattccaa | 720 |

591508035Seq1ist.txt

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| aagtattggt | tgaataaatg | tccaaataaa | ttccatgcct | catgatttcc | agcttatgtg | 780 |
| gcctccacta | ggtggttttg | caaaggccaa | actcttttct | ggcttacaca | gctaccagca | 840 |
| tgtataaata | ggccccctag | caaccattat | tccatcatcc | tcaacaatat | tgtctacacc | 900 |
| atctggaatc | ttgtttaaca | ctagtattgt | agaatcagca | | | 940 |

<210> 48
 <211> 1351
 <212> DNA
 <213> Oryza sativa

<220>
 <223> GLUTELIN-B1 promoter

| | | | | | | |
|-------------|-------------|-------------|------------|------------|------------|------|
| <400> 48 | | | | | | |
| gatctcgatt | tttgaggaat | tttagaagtt | gaacagagtc | aatcgaacag | acagttgaag | 60 |
| agatatggat | ttttctaagat | taattgattc | tctgtctaaa | gaaaaaaagt | attattgaat | 120 |
| taaatggaaa | aagaaaaagg | aaaaagggga | tggcttctgc | tttttgggct | gaaggcggcg | 180 |
| tgtggccagc | gtgctgcgtg | cggacagcga | gcgaacacac | gacggagcag | ctacgacgaa | 240 |
| cgggggaccg | agtggaccgg | acgaggatgt | ggcctaggac | gagtgcacaa | ggctagtggg | 300 |
| ctcgggtcccc | gcgcgggtatc | ccgagtggtc | cactgtctgc | aaacacgatt | cacatagagc | 360 |
| gggcagacgc | gggagccgtc | ctagggtgcac | cgggaagcaa | tccgtcgcct | gggtggattt | 420 |
| gagtgcacgc | gcccacgtgt | agcctcacag | ctctccgtgg | tcagatgtgt | aaaattatca | 480 |
| taatatgtgt | ttttcaataa | gttaaataat | atatataggc | aagttatatg | ggtcaataag | 540 |
| cagtaaaaag | gcttatgaca | tggtaaaatt | acttacacca | atatgcctta | ctgtctgata | 600 |
| tattttacat | gacaacaaag | ttacaagtac | gtcattttaa | aatacaagtt | acttatcaat | 660 |
| tgtagtgtat | caagtaaatg | acaacaaacc | tacaaatttg | ctattttgaa | ggaacactta | 720 |
| aaaaaatcaa | taggcaagtt | atatagtcaa | taaactgcaa | gaaggcttat | gacatggaaa | 780 |
| aattacatac | accaatatgc | tttattgtcc | ggtatatatt | acaagacaac | aaagttataa | 840 |
| gtatgtcatt | taaaaatata | agttacttat | caattgtcaa | gtaaatgaaa | acaaacctac | 900 |
| aaattttgta | ttttgaagga | acacctaaat | tatcaaatat | agcttgctac | gcaaaatgac | 960 |
| aacatgctta | caagttatta | tcattcttaa | gttagactca | tcttctcaag | cataagagct | 1020 |
| ttatggtgca | aaaacaaata | taatgacaag | gcaaagatac | atacatatta | agagtatgga | 1080 |
| cagacatttc | tttaacaaac | tccatttgta | ttactccaaa | agcaccagaa | gtttgtcatg | 1140 |
| gctgagtcac | gaaatgtata | gttcaatctt | gcaaagttgc | ctttcctttt | gtactgtggt | 1200 |
| ttaacactac | aagccatata | ttgtctgtac | gtgcaacaaa | ctatatcacc | atgtatccca | 1260 |
| agatgctttt | ttattgctat | ataaactagc | ttggtctgtc | tttgaactca | catcaattag | 1320 |
| cttaagtttc | cataagcaag | tacaaatagc | t | | | 1351 |

<210> 49
 <211> 852
 <212> DNA
 <213> Unknown

<220>
 <223> CaMV 35S gene promoter

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-----|
| <400> 49 | | | | | | |
| ccccagatta | gcctttttcaa | tttcagaaa | aatgctaacc | cacagatggg | tagagagggt | 60 |
| tacgcagcag | gtctcatcaa | gacgatctac | ccgagcaata | atctccagga | aatcaaatac | 120 |
| cttcccaaga | aggttaaaga | tgacgtcaaa | agattcagga | ctaactgcat | caagaacaca | 180 |
| gagaaagata | tattttctcaa | gatcagaagt | actattccag | tatggacgat | tcaaggcttg | 240 |
| cttcacaaac | caaggcaagt | aatagagatt | ggagtctcta | aaaaggtagt | tcccactgaa | 300 |
| tcaaaggcca | tggagtcaaa | gattcaaata | gaggacctaa | cagaactcgc | cgtaaagact | 360 |
| ggcgaacagt | tcatacagag | tctcttacga | ctcaatgaca | agaagaaaat | cttcgtcaac | 420 |
| atggtggagc | acgacacact | tgtctactcc | aaaaatatca | aagatacagt | ctcagaagac | 480 |
| caaaaggcca | ttgagacttt | tcaacaaagg | gtaatatccg | gaaacctcct | cggattccat | 540 |
| tggccagcta | tctgtcactt | tattgtgaag | atagtggaaa | aggaagggtg | ctcctacaaa | 600 |
| tgccatcatt | gcgataaagg | aaaggccatc | gttgaagatg | cctctgccga | cagtgggtccc | 660 |
| aaagatggac | ccccaccac | gaggagcatc | gtggaaaaag | aagacgttcc | aaccacgtct | 720 |
| tcaaagcaag | tggattgatg | tgatatctcc | actgacgtaa | gggatgacgc | acaatcccac | 780 |
| tatccttcgc | aagacccttc | ctctatataa | ggaagttcat | ttcattttga | gagaacacgg | 840 |
| gggactgtcg | ag | | | | | 852 |

591508035Seqlist.txt

<210> 50
 <211> 1047
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> recombinant construct

<400> 50
 actagacggt cggcatctac tctatttcctt tgccctcgga cgagtgtggt ggcgtcgggt 60
 tccactatcg gcgagtactt ctacacagcc atcgggtccag acggccgcgc ttctgcgggc 120
 gatttgtgta cggccgacag tcccggctcc ggatcggacg attgcgtcgc atcgaccctg 180
 cgcccaagct gcatcatcga aattgccgtc aaccaagctc tgatagagtt ggtcaagacc 240
 aatgctggagc atatacgccc ggagccgcgg cgatcctgca agctccggat gcctccgctc 300
 gaagtagcgc gtctgtgtgt ccatacaagc caaccacggc ctccagaaga agatgttggc 360
 gacctcgtat tgggaatccc cgaacatcgc ctgcgtccag tcaatgaccg ctgttatgcg 420
 gccattgtcc gtcaggacat tgttggagcc gaaatccgcg tgcacgaggt gccggacttc 480
 ggggcagtcg tcggcccaaa gcatcagctc atcgagagcc tgcgcgacgg acgcactgac 540
 ggtgtcgtcc atcacagttt gccagtgtata cacatgggga tcagcaatcg cgcataatgaa 600
 atcacgccat gtagtgtatt gaccgattcc ttgcgggtccg aatggggccga acccgctcgt 660
 ctggctaaga tcggccgcag cgatcgcacg catgacctcc gcgaccggct gaagaacagc 720
 gggcagttcg gtttcaggca ggtctttgcaa cgtgacaccc tgtgcacggc gggagatgca 780
 ataggtcagg ctctcgtgta actccccaat gtcaagcact tccggaatcg ggagcgcggc 840
 cgatgcaaag tgccgataaa cataacgacg tttgtagaaa ccatcggcgc agctattttac 900
 ccgcaggaca tatccacgcc ctctacatc gaagctgaaa gcacgagatt cttcgccctc 960
 cgagagctgc atcaggtcgg agacgtgtgc gaacttttcg atcagaaact tctcgacaga 1020
 cgtcgcgggt agttcagggt ttttcatt 1047

<210> 51
 <211> 67
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> recombinant construct

<400> 51
 aatgaagatc attttcgtat ttgctctcct tgctattggt gcatgcaacg cttctgcacg 60
 gtttgat 67

<210> 52
 <211> 15
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> recombinant construct

<400> 52
 atgaagatca ttttc 15

<210> 53
 <211> 15
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> recombinant construct

<400> 53
 ggatcccggg gtacc 15

<210> 54

591508035Seqlist.txt

<211> 1047
<212> DNA
<213> Unknown

<220>
<223> hygromycin phosphotransferase gene

<400> 54
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agcgtctccg acctgatgca gctctcggag ggcgaagaat ctcgtgcttt cagcttcgat 120
gtaggagggc gtggatatgt cctgcgggta aatagctgcg ccgatggttt ctacaaagat 180
cgttatgttt atcggcactt tgcacgagcc gcgctcccga ttccggaagt gcttgacatt 240
ggggagttca gcgagagcct gacctattgc atctcccgcg gtgcacaggg tgtcacgttg 300
caagacctgc ctgaaaccga actgcccgtt gttcttcagc cggtcgcgga ggtcatggat 360
gcgatcgctg cgccgatct tagccagacg agcgggttcg gccatttcg accgcaagga 420
atcggccaat acactacatg gcgtgatttc atatgcgcga ttgctgatcc ccatgtgtat 480
cactggcaaa ctgtgatgga cgacaccgtc agtgcgtccg tcgcgaggc tctcgatgag 540
ctgatgcttt gggccgagga ctgcccga gtcggcacc tcgtgcacgc ggatttcggc 600
tccaacaatg tcctgacgga caatggccgc ataacagcgg tcattgactg gagcgaggcg 660
atgttcgggg attcccaata cgaggtcgcc aacatcttct tctggaggcc gtggttggt 720
tgtatggagc agcagacgcg ctacttcgag cggaggcatc cggagcttgc aggatcgccg 780
cggctccggg cgtatatgct ccgcattggt cttgaccaac tctatcagag cttggttgac 840
ggcaatttcg atgatgcagc ttgggcgcag ggtcgatgcg acgcaatcgt ccgatccgga 900
gccgggactg tcgggcgtac acaaatcgcc cgagaagcg cggccgtctg gaccgatggc 960
tgtgtagaag tactcgccga tagtggaac cgacgcccc gactcgtcc gagggcaaag 1020
gaatagagta gatgccgacc gtctagt 1047

<210> 55
<211> 265
<212> DNA
<213> Unknown

<220>
<223> Nos terminator

<400> 55
gaatttcccc gatcgttcaa acatttggca ataaagtctt ttaagattga atcctgttgc 60
cggctcttgcg atgattatca tataatttct gttgaattac gtttaagcatg taataattaa 120
catgtaatgc atgacgttat ttatgagatg ggtttttatg attagagtcc cgcaattata 180
catttaatac gcgatagaaa acaaaatata gcgcgcaaac taggataaat tatcgcgcg 240
ggtgtcatct atgttactag atcgg 265

<210> 56
<211> 341
<212> PRT
<213> Artificial Sequence

<220>
<223> recombinant construct HPT

<400> 56
Met Lys Lys Pro Glu Leu Thr Ala Thr Ser Val Glu Lys Phe Leu Ile
1 5 10 15
Glu Lys Phe Asp Ser Val Ser Asp Leu Met Gln Leu Ser Glu Gly Glu
20 25 30
Glu Ser Arg Ala Phe Ser Phe Asp Val Gly Gly Arg Gly Tyr Val Leu
35 40 45
Arg Val Asn Ser Cys Ala Asp Gly Phe Tyr Lys Asp Arg Tyr Val Tyr
50 55 60
Arg His Phe Ala Ser Ala Ala Leu Pro Ile Pro Glu Val Leu Asp Ile
65 70 75 80
Gly Glu Phe Ser Glu Ser Leu Thr Tyr Cys Ile Ser Arg Arg Ala Gln
85 90 95

[illegible]

591508035Seq1ist.txt

| | | | | | | |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| ggaccgcaag | gaatcgggtca | atacactaca | tggcgtgatt | tcatatgcgc | gattgctgat | 1320 |
| ccccatgtgt | atcactggca | aactgtgatg | gacgacaccg | tcagtgcgtc | cgtcgcgcag | 1380 |
| gctctcgaatg | agctgatgct | ttgggcccag | gactgccccg | aagtccggca | cctcgtgcac | 1440 |
| gcggatttcg | gctccaacaa | tgctctgacg | gacaatggcc | gcataacagc | ggtcattgac | 1500 |
| tggagcgagg | cgatgttcgg | ggattcccaa | tacgaggctc | ccaacatctt | cttctggagg | 1560 |
| ccgtgggttg | cttgtatgga | gcagcagacg | cgctacttcg | agcggaggca | tccggagctt | 1620 |
| gcaggatcgc | cgcggctccg | ggcgtatatg | ctccgcattg | gtcttgacca | actctatcag | 1680 |
| agcttggttg | acggcaattt | cgatgatgca | gcttgggcgc | aggggtcgatg | cgacgcaatc | 1740 |
| gtccgatccg | gagccgggac | tgctcggcgt | acacaaatcg | cccgcagaag | cgcgcccgctc | 1800 |
| tggaccgatg | gctgtgtaga | agtactcgcc | gatagtggaa | accgacgcc | cagcactcgt | 1860 |
| ccgagggcaa | aggaatagag | tagatgccga | ccgtctagt | aatttcccg | atcgttcaaa | 1920 |
| catttggtgca | taaagtttct | taagattgaa | tcctgttgcc | ggctcttgca | tgattatcat | 1980 |
| ataatttctg | ttgaattacg | ttaagcatgt | aataattaac | atgtaatgca | tgacgttatt | 2040 |
| tatgagatgg | gtttttatga | ttagagtcgc | gcaattatac | atttaatacg | cgatagaaaa | 2100 |
| caaaatatag | cgcgcaaaact | aggataaaatt | atcgcgcgcg | gtgtcatcta | tgttacta | 2158 |

<210> 58

<211> 1757

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic promoter sequence

<400> 58

| | | | | | | |
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| ctgatgatta | ttttgttgat | catgattttc | ttttggctat | ttgatttttt | gaaagatatt | 60 |
| tttttccctg | ggaagacacc | tatgggacga | agatattatg | tttcttatat | agcaccaaac | 120 |
| aaattttaata | tatatatata | tatatatata | tatatatata | tatatatata | tatatatata | 180 |
| tatatatata | tatatatata | tatatatata | tatcacatca | gtctctgcac | aaagtgcac | 240 |
| ctgggctgct | tcaattataa | agccccattc | accacatttg | ctagatagtc | gaaaagcacc | 300 |
| atcaatattg | agcttcagg | attttttggt | gtgtttgtgt | tggtattgatt | ctaataatata | 360 |
| ccaaatcaat | ataattcact | accaaaatat | accatagcca | tcacaacttt | attaattttg | 420 |
| gtagcttaag | atggtatata | taataaccaa | ttacaactg | attctaattt | tactacggcc | 480 |
| cagtatgtac | caatacaaaa | caacgagtat | gttttcttcc | atcgtaatcg | tacacagtac | 540 |
| aaaaaaacct | ggccagcctt | tcttgggctg | gggctctctt | tcgaaaggct | acaaaacgta | 600 |
| cacggcagta | acgcccgttc | gctgcgtgtt | aacggccacc | aaccccgcgc | tgagcaaacg | 660 |
| gcacagctt | tccacctcct | cgatatctcc | gcggcgccgt | ctggaccgcg | cccctttccg | 720 |
| ttcttttctt | tccttctcgc | gtttgcgtgg | tggggacgga | ctcccaaacc | cgccctctcc | 780 |
| tctctccttt | ctttatttgg | ctatatcttc | actgggcccc | accaccgca | cccctgggccc | 840 |
| cactcacgag | tccccccctc | cccacctata | aataccccac | cccctcctcg | cctcttctct | 900 |
| cgtcaatcga | acccccaaat | cgcagagaaa | aaaaaatctc | ccctcgaagc | gaagcgctga | 960 |
| atcgcccttct | caagggtatgc | gattttctga | tcctctccgt | tcctcgcgtt | tgatttgatt | 1020 |
| tcccggcctg | ttcgtgattg | tgagatgttg | tggttagctt | ccgttttgcg | atctgtggta | 1080 |
| gatttgaaca | ggtttagatg | gggttcgcgt | ggtagctg | atctgtgatt | atgagcgatg | 1140 |
| ctgttcgtgg | tccaagtatt | gattggttcg | gatctagtag | tagaactgtg | ctagggttgt | 1200 |
| gattcgtttc | gatctgttca | attagtagga | tttagtctct | gtttttctcg | ttgatccaag | 1260 |
| tagcagcttc | aggtatattt | tgcttaggtt | gtttttgatt | cagtccctct | agttgcatag | 1320 |
| attctactct | gttcatgttt | aatctaaggg | ctgcgtcttg | ttgattagtg | attacatagc | 1380 |
| atagctttca | ggatatttta | cttgcttatg | cctatcttat | caactgttgc | acctgtaaat | 1440 |
| tctagcctat | gttataacct | gccttatgtg | ctctcgggat | agtgcagta | gttattgaat | 1500 |
| cagtttgccg | atggatttct | agtagttcat | agacctgcat | attatttttg | tgaacacgag | 1560 |
| cacggtgcgt | ctctctatct | tgtttaggtc | ctggttggtg | tgataggtac | actgatgtta | 1620 |
| ttgtggttta | ggctcgtgat | ctaacatatt | ggaataattt | gattgactga | tttctgctgt | 1680 |
| acttgcttgg | tattgttata | atttcatgtt | catagttgct | gaccatgctt | cggtaattgt | 1740 |
| gtgtgcagat | ctctaga | | | | | 1757 |

<210> 59

<211> 926

<212> DNA

<213> Unknown

<220>

<223> GUS gene partial fragment

591508035Seq1ist.txt

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<400> 59
gatatctacc cgcttcgcgt cggcatccgg tcagtggcag tgaagggcga acagttcctg 60
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ggcaaaggat tcgataacgt gctgatgggt cacgaccacg cattaatgga ctggattggg 180
gccaaactcct accgtacctc gcattaccct tacgctgaag agatgctcga ctgggcagat 240
gaacatggca tcgtggtgat tgatgaaact gctgctgctg gctttaacct ctctttaggc 300
attggtttcg aagcgggcaa caagccgaaa gaactgtaca gcgaagaggc agtcaacggg 360
gaaactcagc aagcgcactt acaggcgatt aaagagctga tagcgcgtga caaaaaccac 420
ccaagcgtgg tgatgtggag tattgccaac gaaccggata cccgtccgca agtgcacggg 480
aatatttcgc cactggcgga agcaacgcgt aaactcgacc cgacgcgtcc gatcacctgc 540
gtcaatgtaa tgttctgcga cgctcacacc gataccatca gcgatctctt tgatgtgctg 600
tgcctgaacc gttattacgg atggtatgtc caaagcggcg atttggaaac ggcagagaag 660
gtactggaaa aagaacttct ggcctggcag gagaaactgc atcagccgat tatcatcacc 720
gaatacggcg tggatacgtt agccgggctg cactcaatgt acaccgacat gtggagtga 780
gagtatcagt gtgcatggct ggatatgtat caccgcgtct ttgatcgcgt cagcgcgtc 840
gtcggatgaac aggtatggaa tttcgccgat tttgcgacct cgcaaggcat attgcgcgtt 900
ggcggtaaca agaaagggat cttcac 926

```

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<210> 60
<211> 1198
<212> DNA
<213> Oryza sativa

```

```

<400> 60
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tgatggcctt agtctaaaat gatcacccta attctaattgc ggaattggat aatggacggg 120
gttttgttga cagacatgga gatgttggtt atgctatgaa tagtcgatag ttttaagttg 180
gttatttaaat ttggatatag actgacaaat gattatattc ttctaattga ttaaattcta 240
cttttggtatg gttgatagga ttatttacaa gttattggaa gaacttgcag catgtggggg 300
atatggttat actacgtgac atatattcat gagtggagtt cagagttttg gcttgtctcc 360
aggcatacat atacctaggc acaagtccag cgcaaaagca tacaaggaag atcataacaa 420
catgtttccc cttctctgga aaattttggt ggcaacagat gccttctcct tctttcagct 480
tctgcttctt tagtcagttt ggaggaagca gcaaatagtt gatgatatga gaatcctcta 540
catcggctag gtgtaccaca cgactttatt attattatta ttattattat tattatttta 600
caaaatataa atagatcagt ccctcaccaa caagtagagc aagttggtga gttattgtaa 660
agttctacaa agctaattta aaagttattg cattaactta ttcatatta caaacaagag 720
tgtcaatgga acaatgaaaa ccatatgaca tactataatt ttgtttttat tattgaaatt 780
atataattca aagagaataa atccacatag ccgtaaagtt ctacatgtgg tgcattacca 840
aaatatatat agcttacaaa acatgacaag cttagtttga aaaattgcaa tccttatcac 900
attgacacat aaagtgagtg atgagtcata atattatttt tcttgctacc catcatgtat 960
atatgatagc cacaaagtta ctttgatgat gataccaaa aacattttta ggtgcaccta 1020
acagaatatc caaataatat gactcactta gatcataata gagcatcaag taaaactaac 1080
actctaaagc aaccgatggg aaagcatcta taaatagaca agcacaatga aaatcctcat 1140
catccttcac cacaattcaa atattatagt tgaagcatag tagtagaatc caacaaca 1198

```

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<210> 61
<211> 163
<212> DNA
<213> Oryza sativa

```

```

<220>
<223> 10kDa prolamin terminator

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```

<400> 61
tcaaacgttg gttacatgta ctctagtaat aagggtgttg atactatcgt gtgcaaacac 60
tagaaataag aaccattgaa taaaatatca atcattttca gacttgcaaa tattgggtat 120
ttggattttc gtcccatgtc cctcttgaaa gccatgctgt aca 163

```

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<210> 62
<211> 984
<212> DNA
<213> Oryza sativa

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591508035Seqlist.txt

<220>
<223> GLUTELIN-A3 promoter

<400> 62
agaagaaaga taaataaccg aaactatattg gagagcattc aggttacatg gttagtccat 60
ggtgctagat attgctatat aatactcaat gcaatgctca atagatataa gtttcaaagc 120
tgtataagaa ttttaggtta gtgtgcaatg taagtgtagc ttcttatagc ttagtgcttt 180
actatcttca caagcacatg ctatagtatt gttccaagat gaaagaataa ttcattccttg 240
ctaccaactt gcatgatatt atatttgtga atatcctatc tcttggtta taatgaaatg 300
tgctgctggg ttatacctga ccatgggtatt tgagagacct ttgtatagct gaaaccaacg 360
tatatgctgag catggaacaa gagaacaaaa tgcaaggatt tttttatact gggtcatgcc 420
cctggatggg ttaatatcgt gatcatcaaa aaagatatgc ataaaattaa agtaataaat 480
ttgtcctaaa gaaacaaaaa ccaaaagcac atatgtccta aacaaactgc attttgtttg 540
tcatgtagca atacaagaga taatatatga cgtgggtatg acttattcac tttttgtgac 600
tccaaaatgt agtaggtcta actgattgtt taaagtgatg tgcttactgt agaagtttca 660
tccaaaagc aatcactaaa gcaacacaca acgtatagtc caccttgac gtaattcttt 720
gtggaagata acaagaaggc tcaactgaaa ataaaagcaa agaaaaggat atcaaacaga 780
ccattgtgta tcccattgat acttgtatgt ctatttatct atccacctt tgtgtacctt 840
acttctatct agtgagtcac ttcatatgtg gacattaaca aactctatct taacatctag 900
tcgatcacta ctttacttca ctataaaagg accaacatat atcaccattt ctcacaaaag 960
cattgagttc agtcccacaa aaac 984

<210> 63
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> recombinant construct

<400> 63
atgaagatca ttttcgtatt tgctctcctt 30

<210> 64
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> recombinant construct

<400> 64
atgaagatca ttttcgtatt tgctctcctt gctattggtg catgc 45

<210> 65
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> recombinant construct

<400> 65
caaagttata gacaatatca actacaatcg 30

<210> 66
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> recombinant construct

591508035Seqlist.txt

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| <400> 66 gagttcgtaa ttcaa | 15 |
| <210> 67 <211> 45 <212> DNA <213> Artificial Sequence | |
| <220> <223> recombinant construct | |
| <400> 67 gagttcgtaa ttcaacagca tagcatagtg gcaaccccct tctgg | 45 |
| <210> 68 <211> 45 <212> DNA <213> Artificial Sequence | |
| <220> <223> recombinant construct | |
| <400> 68 caacaatctc actaccaggc cattagtagc gttcaggcga ttgtg | 45 |
| <210> 69 <211> 15 <212> DNA <213> Artificial Sequence | |
| <220> <223> recombinant construct | |
| <400> 69 gctcaagctc aagct | 15 |
| <210> 70 <211> 30 <212> DNA <213> Artificial Sequence | |
| <220> <223> recombinant construct | |
| <400> 70 tactttgatc agactcaagc tcaagctcaa | 30 |
| <210> 71 <211> 16 <212> DNA <213> Artificial Sequence | |
| <220> <223> recombinant construct | |
| <400> 71 tgcagcagca gtgttg | 16 |
| <210> 72 <211> 23 <212> DNA <213> Artificial Sequence | |

<220>
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<400> 72
 tgcagcagca gtgttgccaa cag

23

<210> 73
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> recombinant construct

<400> 73
 Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Val Ala Cys Asn
 1 5 10 15
 Ala Ser Ala Arg Phe Asp
 20

<210> 74
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> recombinant construct

<400> 74
 Met Lys Ile Ile Phe
 1 5

<210> 75
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> recombinant construct

<400> 75
 Met Lys Ile Ile Phe Val Phe Ala Leu Leu
 1 5 10

<210> 76
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> recombinant construct

<400> 76
 Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Val Ala
 1 5 10

<210> 77
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>

<223> recombinant construct

<400> 77

Gln Ser Tyr Arg Gln Tyr Gln Leu Gln Ser
1 5 10

<210> 78

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> recombinant construct

<400> 78

Glu Phe Val Arg Gln
1 5

<210> 79

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> recombinant construct

<400> 79

Glu Phe Val Arg Gln Gln His Ser Ile Val Ala Thr Pro Phe Trp
1 5 10 15

<210> 80

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> recombinant construct

<400> 80

Gln Gln Ser His Tyr Gln Ala Ile Ser Ser Val Gln Ala Ile Val
1 5 10 15

<210> 81

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> recombinant construct

<400> 81

Ala Gln Ala Gln Ala
1 5

<210> 82

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> recombinant construct

<400> 82

Tyr Phe Asp Gln Thr Gln Ala Gln Ala Gln
 1 5 10

<210> 83
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> recombinant construct

<400> 83
 Gln Gln Gln Cys Cys
 1 5

<210> 84
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> recombinant construct

<400> 84
 Gln Gln Gln Cys Cys Gln Gln
 1 5

<210> 85
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> recombinant construct

<400> 85
 Glu Phe Val Arg Gln Gln Cys Ser Pro
 1 5

<210> 86
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> recombinant construct

<400> 86
 Cys Gln Val Met Gln Gln Gln Cys Cys Gln Gln
 1 5 10

<210> 87
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> recombinant construct

<400> 87
 Gln Gln Cys Cys Gln Gln
 1 5

591508035Seqlist.txt

<210> 88
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> recombinant construct

<400> 88
 Glu Phe Val Arg Gln Gln
 1 5

<210> 89
 <211> 144
 <212> PRT
 <213> Oryza sativa

<220>
 <223> RM4

<400> 89
 Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Ala Ala Cys Ser
 1 5 10 15
 Ala Ser Ala Gln Phe Asp Val Leu Gly Gln Ser Tyr Arg Gln Tyr Gln
 20 25 30
 Leu Gln Ser Pro Val Leu Leu Gln Gln Val Leu Ser Pro Tyr Asn
 35 40 45
 Glu Phe Val Arg Gln Gln Tyr Gly Ile Ala Ala Ser Pro Phe Leu Gln
 50 55 60
 Ser Ala Ala Phe Gln Leu Gln Gln Leu Ala Leu Val Ala Gln Gln Ser
 65 70 75 80
 His Tyr Gln Asp Ile Asn Ile Val Gln Ala Ile Ala Gln Gln Leu Gln
 85 90 95
 Leu Gln Gln Phe Gly Asp Leu Tyr Phe Asp Arg Asn Leu Ala Gln Ala
 100 105 110
 Gln Ala Leu Leu Ala Phe Asn Val Pro Ser Arg Tyr Gly Ile Tyr Pro
 115 120 125
 Arg Tyr Tyr Gly Ala Pro Ser Thr Ile Thr Thr Leu Gly Gly Val Leu
 130 135 140

<210> 90
 <211> 156
 <212> PRT
 <213> Oryza sativa

<220>
 <223> RM5

<400> 90
 Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Val Ala Cys Asn
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 Ala Ser Ala Arg Phe Asp Ala Leu Ser Gln Ser Tyr Arg Gln Tyr Gln
 20 25 30
 Leu Gln Ser His Leu Leu Leu Gln Gln Gln Val Leu Ser Pro Cys Ser
 35 40 45
 Glu Phe Val Arg Gln Gln His Ser Ile Val Ala Thr Pro Phe Trp Gln
 50 55 60
 Pro Ala Thr Phe Gln Leu Ile Asn Asn Gln Val Met Gln Gln Gln Cys
 65 70 75 80
 Cys Gln Gln Leu Arg Leu Val Ala Gln Gln Ser His Tyr Gln Ala Ile
 85 90 95
 Ser Ser Val Gln Ala Ile Val Gln Gln Leu Gln Leu Gln Gln Val Gly
 100 105 110

591508035Seq1ist.txt

Val Val Tyr Phe Asp Gln Thr Gln Ala Gln Ala Gln Ala Leu Leu Ala
 115 120 125
 Leu Asn Leu Pro Ser Ile Cys Gly Ile Tyr Pro Asn Tyr Tyr Ile Ala
 130 135 140
 Pro Arg Ser Ile Pro Thr Val Gly Gly Val Trp Tyr
 145 150 155

<210> 91
 <211> 158
 <212> PRT
 <213> Oryza sativa

<220>
 <223> RM7

<400> 91
 Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Val Ala Cys Asn
 1 5 10 15
 Arg Ser Ala Arg Phe Asp Pro Leu Ser Gln Ser Tyr Arg Gln Tyr Gln
 20 25 30
 Leu Gln Ser His Leu Leu Leu Gln Gln Val Leu Ser Pro Cys Ser
 35 40 45
 Glu Phe Val Arg Gln Gln Tyr Ser Ile Val Ala Thr Pro Phe Trp Gln
 50 55 60
 Pro Ala Thr Phe Gln Leu Ile Asn Asn Gln Val Met Gln Gln Gln Arg
 65 70 75 80
 Met Cys Cys Gln Gln Leu Arg Leu Val Ala Gln Gln Ser His Tyr Gln
 85 90 95
 Ala Ile Ser Ile Val Gln Ala Ile Val Gln Gln Leu Gln Leu Gln Gln
 100 105 110
 Phe Ser Gly Val Tyr Phe Asp Gln Thr Gln Ala Gln Ala Gln Thr Leu
 115 120 125
 Leu Thr Phe Asn Leu Pro Ser Ile Cys Gly Ile Tyr Pro Asn Tyr Tyr
 130 135 140
 Ser Ala Pro Arg Ser Ile Ala Thr Val Gly Gly Val Trp Tyr
 145 150 155

<210> 92
 <211> 134
 <212> PRT
 <213> Oryza sativa

<220>
 <223> RM10

<400> 92
 Met Ala Ala Tyr Thr Ser Lys Ile Phe Ala Leu Phe Ala Leu Ile Ala
 1 5 10 15
 Leu Ser Ala Ser Ala Thr Thr Ala Ile Thr Thr Met Gln Tyr Phe Pro
 20 25 30
 Pro Thr Leu Ala Met Gly Thr Met Asp Pro Cys Arg Gln Tyr Met Met
 35 40 45
 Gln Thr Leu Gly Met Gly Ser Ser Thr Ala Met Phe Met Ser Gln Pro
 50 55 60
 Met Ala Leu Leu Gln Gln Cys Cys Met Gln Leu Gln Gly Met Met
 65 70 75 80
 Pro Gln Cys His Cys Gly Thr Ser Cys Gln Met Met Gln Ser Met Gln
 85 90 95
 Gln Val Ile Cys Ala Gly Leu Gly Gln Gln Gln Met Met Lys Met Ala
 100 105 110
 Met Gln Met Pro Tyr Met Cys Asn Met Ala Pro Val Asn Phe Gln Leu
 115 120 125
 Ser Ser Cys Gly Cys Cys

591508035Seqlist.txt

130

<210> 93
 <211> 149
 <212> PRT
 <213> Oryza sativa

<220>
 <223> RM16

<400> 93
 Met Lys Ile Phe Val Ile Leu Ser Leu Leu Ala Leu Ala Ala Ser Ser
 1 5 10 15
 Ala Ser Ala Gln Phe Asp Ala Cys Thr Tyr Gly Gln Cys Gln Gln
 20 25 30
 Pro Phe Met Gln Pro Ile Met Asn Pro Cys Asn Glu Phe Val Arg Gln
 35 40 45
 Gln Cys Ser Pro Met Ser Leu Pro Trp Lys Gln Ser Arg Arg Leu Gln
 50 55 60
 Leu Ser Ser Cys Gln Val Met Arg Gln Gln Cys Gln Gln Met Arg
 65 70 75 80
 Leu Met Ala Gln Gln Tyr His Cys Gln Ala Ile Cys Thr Met Val Gln
 85 90 95
 Ser Ile Met Gln Gln Val Gln Phe Asp Ala Gly Phe Val Gly Glu Pro
 100 105 110
 Gln Ala Gln Ala Gln Ala Gln Val Ala Leu Asn Leu Pro Ser Met Cys
 115 120 125
 Gly Val Tyr Pro Arg Tyr Cys Ser Thr Pro Cys Lys Val Ala Thr Gly
 130 135 140
 His Cys Gly Ser Trp
 145

<210> 94
 <211> 596
 <212> DNA
 <213> Oryza sativa

<220>
 <223> RM4

<400> 94
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 atatcagctg cagtcgcctg tcctgctaca gcaacaggtg cttagcccat ataatgagtt 180
 cgtaaggcag cagtatggca tagcggcaag ccccttcttg caatcagctg cgtttcaact 240
 gagaaacaac caagtctggc aacagctcgc gctggtggcg caacaatctc actatcagga 300
 cattaacatt gttcaggcca tagcgcagca gctacaactc cagcagtttg gtgatctcta 360
 ctttgatcgg aatctggctc aagctcaagc tctgttggtt tttaacgtgc catctagata 420
 tggtatctac cctaggtact atggtgcacc cagtaccatt accacccttg gcggtgtctt 480
 gtaatgagtt ttaacagtat agtggttcgg aagttaaaaa taagctcaga tatcatatat 540
 gtgacatgtg aaactttggg tgatataaat agaaaaaaag ttgtctttca tatttta 596

<210> 95
 <211> 597
 <212> DNA
 <213> Oryza sativa

<220>
 <223> RM5

<400> 95
 caattcaaac attatagttg aagcatagta gtagaatcct acaaaaatga agatcatttt 60
 cgtatttgct ctccttgcta ttgttgcatg caacgcttct gcacggtttg atgctcttag 120

591508035Seq1ist.txt

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-----|
| tcaaagttat | agacaatatc | aactacaatc | gcatctcctg | ctacagcaac | aagtgtctcag | 180 |
| cccatgcagt | gagttcgtaa | ggcaacagca | tagcatagtg | gcaacccctt | tctggcaacc | 240 |
| agctacgttt | caattgataa | acaaccaagt | catgcagcaa | cagtgttgcc | aacagctcag | 300 |
| gctggtagcg | caacaatctc | actaccaggc | cattagtagc | gttcaggcga | ttgtgcagca | 360 |
| actacagctg | cagcaggctg | gtgttgctta | ctttgatcag | actcaagctc | aagctcaagc | 420 |
| tttgctggcc | ttaaacttgc | catccatatg | tggtatctat | cctaactact | acattgctcc | 480 |
| gaggagcatt | cccaccgttg | gtggtgtctg | gtactgaatt | gtaatagtat | aatggttcaa | 540 |
| atgttaaaaa | taaagtcattg | catcatcatg | cgtgacagtt | gaaaaaaaaa | aaaaaaa | 597 |

<210> 96
 <211> 609
 <212> DNA
 <213> *Oryza sativa*

<220>
 <223> RM7

| | | | | | | |
|-------------|------------|------------|------------|-------------|-------------|-----|
| <400> 96 | | | | | | |
| gaagcatagt | agtagaatcc | aacaacaatg | aagatcattt | tcgtatttgc | tctccttgct | 60 |
| attgtttgcat | gcaatcgctc | tgcgcggttt | gatcctctta | gtcaaagtta | taggcaatat | 120 |
| caactacagt | cgcattctct | actacagcaa | caagtgtctc | gcccattgcag | tgagttcgta | 180 |
| aggcaacagt | atagcatagt | ggcaaccccc | ttctggcaac | cagctacgtt | tcaattgata | 240 |
| aacaaccaag | tcatgcagca | gcagtgttgc | caacagctca | ggctggtagc | acaacaatct | 300 |
| cactaccagg | ccattagtat | tgttcaagcg | attgtgcaac | agctacaact | gcagcaattt | 360 |
| agtggtgtct | actttgatca | gactcaagct | caagccaaa | ctctgttgac | cttcaacttg | 420 |
| ccatccatat | gtggtatcta | ccctaactac | tatagtgtct | ccaggagcat | tgccactggt | 480 |
| ggtggtgtct | ggtactgaat | tgtaacaata | taatagtctg | tatgttaaaa | ataaagtcatt | 540 |
| acatcatcat | gtgtgactgt | tgaaacttag | ggtcatataa | atctaaataa | aatcatctta | 600 |
| cctaaaaaa | | | | | | 609 |

<210> 97
 <211> 1002
 <212> DNA
 <213> *Oryza sativa*

<220>
 <223> intron sequence

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| <400> 97 | | | | | | |
| tctagatcta | agaatgggtcc | gtgccttaaa | actttcccca | accgtgctag | tttatgtttgt | 60 |
| gactgtctgc | ctctctcagt | ttacttggat | gcattgacaa | catccttttt | tgctattact | 120 |
| cgtattttgct | ctatagctgg | tggcatatct | catgttgaaa | tttgcccttt | taatccaaaa | 180 |
| ttggatgtaa | ttgaaagaat | cctacgtggg | agttattttg | attttgggtg | gaaaaaaaaat | 240 |
| agcctttgtta | gaagaagcaa | aattggattt | agttaaaagg | atactagatg | gtgttatttg | 300 |
| gatttttggtg | caaatcaaat | taggagggtt | gttttattca | agttaaagtt | tgttttaaaa | 360 |
| aaattctctct | aaaaagatag | atactagatt | tgcataatat | cattgaaaaat | tacatcttcg | 420 |
| cttggcggtt | atacttttag | tccctctaaa | ttgttcaatc | atztatgatg | aaaaggaaaa | 480 |
| tcattttata | tcacaaagta | tttatgatga | aaggggaaaa | atattctgca | tggttttgaa | 540 |
| caaaatacgt | ggatttgggt | agccttaaca | tacttgaaaa | gggtatgatg | ttgatgtagt | 600 |
| gcccacatgg | tgtcgcttga | cattaaaacg | atatgcagtc | aggattgagg | aacattgctg | 660 |
| acaattttact | atcgctgtct | gtgttgacca | caataattca | gatgtaccat | cctatcttct | 720 |
| aactagaaag | atgcatggaa | gtttcttaca | ttatttccag | cacttgaaat | tttagtgaaa | 780 |
| tatcattaaa | acataaccac | ttactttgct | gtgatatgaa | ataaatgttt | tatttcttgg | 840 |
| aaagtgggtat | attcatatat | tcttacagta | aattttattga | ttttcttttc | atatttttct | 900 |
| aaatttttaac | cacccttttg | gtagcttaag | gaaaatttga | tgtttgacag | tcctgttttc | 960 |
| tgttgtttca | tccctccagg | aaaaccagct | actagtggat | cc | | 1002 |

<210> 98
 <211> 37
 <212> PRT
 <213> *Oryza sativa*

<400> 98

591508035Seqlist.txt

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 1 5 10 15
 Gln Ser His Tyr Gln Ala Ile Ser Ser Val Gln Ala Ile Val Gln Gln
 20 25 30
 Leu Gln Leu Gln Gln
 35

<210> 99
 <211> 34
 <212> PRT
 <213> Oryza sativa

<400> 99
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 Ala Ser Ala Arg Phe Asp Ala Leu Ser Gln Ser Tyr Arg Gln Tyr Gln
 20 25 30
 Leu Gln

<210> 100
 <211> 26
 <212> PRT
 <213> Oryza sativa

<400> 100
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 1 5 10 15
 Pro Ala Thr Phe Gln Leu Ile Asn Asn Gln
 20 25

<210> 101
 <211> 31
 <212> PRT
 <213> Oryza sativa

<400> 101
 Tyr Phe Asp Gln Thr Gln Ala Gln Ala Gln Ala Leu Leu Ala Leu Asn
 1 5 10 15
 Leu Gln Ser Ile Cys Gly Ile Tyr Pro Asn Tyr Tyr Ile Ala Pro
 20 25 30

<210> 102
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 <213> Oryza sativa

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1 5 10 15

car nnn cay tay car gcg atg nnn nnn gtn car gcg atg gtn car car 96
Gln Xaa His Tyr Gln Ala Met Xaa Xaa Val Gln Ala Met Val Gln Gln
20 25 30

nnn car nnn car car
Xaa Gln Xaa Gln Gln
35

| | |
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| $\langle 210 \rangle$ | 103 |
| $\langle 211 \rangle$ | 102 |

<212> DNA
<213> Oryza sativa

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<221> misc_feature
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<400> 103

591508035Seqlist.txt

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| gcg nnn gcg nnn tty gay gcg nnn nnn car nnn tay nnn car tay car Ala Xaa Ala Xaa Phe Asp Ala Xaa Xaa Gln Xaa Tyr Xaa Gln Tyr Gln 20 25 30 | 96 |
| nnn car Xaa Gln | 102 |

<210> 104
<211> 78
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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<400> 104

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| gar | tty | gtn | nnn | car | car | cay | nnn | atg | gtn | gcn | acn | ccn | tty | tgg | car | 48 |
| Glu | Phe | Val | Xaa | Gln | Gln | His | Xaa | Met | Val | Ala | Thr | Pro | Phe | Trp | Gln | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| ccn | gcn | acn | tty | car | nnn | atg | aay | aay | car | 78 |
| Pro | Ala | Thr | Phe | Gln | Xaa | Met | Asn | Asn | Gln | |
| | | | 20 | | | | | 25 | | |

<210> 105

<211> 93

<212> DNA

<213> Oryza sativa

<220>

<221> CDS

<222> (1)..(93)

<400> 105

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| tac | ttt | gat | cag | act | caa | gct | caa | gct | caa | gct | ttg | ctg | gcc | tta | aac | 48 |
| Tyr | Phe | Asp | Gln | Thr | Gln | Ala | Gln | Ala | Gln | Ala | Leu | Leu | Ala | Leu | Asn | |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| ttg | caa | tcc | ata | tgt | ggt | atc | tat | cct | aac | tac | tac | att | gct | ccg | 93 |
| Leu | Gln | Ser | Ile | Cys | Gly | Ile | Tyr | Pro | Asn | Tyr | Tyr | Ile | Ala | Pro | |
| | | | 20 | | | | | 25 | | | | | 30 | | |

<210> 106

<211> 1426

<212> DNA

<213> Oryza sativa

<400> 106

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| ggggggtcata | ctagaagccc | catattaatc | ctacgagagg | tagaaaacta | gaaattatcg | 120 |
| cactagtcaa | gttgacattg | gcctagagtc | tcaattgtag | tataaatgat | ataataattc | 180 |
| taaaattaaa | attagcaaat | aacaagttca | attaggtttg | aagccgtaat | tctattttta | 240 |
| taatttaatc | attcttaaat | ttagaattac | taaaaaataa | ttattaatac | agcgttgtac | 300 |
| ttgctgtaga | gactcatata | gtttttacga | cgattttaata | atttcaaaaa | taaatacagg | 360 |
| aaattgctaa | gtttgtaatc | taaaatataa | tattgtcata | atataataat | tctaaaattc | 420 |
| aaattaataa | ataccaagtt | gatgttttat | ttaaaatata | tagtatgtgc | cgcacagctt | 480 |
| gatgcttagt | ctagatcttt | taaccgtgct | acgctggggt | aattagcgat | ggtgcaggtc | 540 |
| acgtacccaa | atttcttcac | tgttggatca | actagagtac | ttaaaccgagg | gcatgtgatg | 600 |
| aaggctagct | atttgaaatt | ttccaattat | ccctgcataa | gtcagggtac | aatagcacct | 660 |
| ggactacatg | cagggattac | aaaatagggtg | gtaaccacat | ttaccgctgt | aaccctatca | 720 |
| aattcaaata | aattttaaaa | gtaatttgat | ttttttaata | aattttgtat | ggtttctcaa | 780 |
| gctttatttt | ggttaccgtg | cttactgccg | gaggcaatgg | gaaaccctca | ctagaagttg | 840 |
| cacctgttct | tgtctgtgca | ccatatcatg | ttgaatcatg | tgcgtttgtg | cctttcggaa | 900 |
| gaaccgattt | actacatgac | tcatcaattc | cactttacgt | atcaaaagggt | ttgttatggg | 960 |
| ggcaatgctt | tttgtgaaatt | aaatttttat | tttgcgtcac | gttgatctta | gttaaacact | 1020 |
| acctacctac | cattacaaaa | cctcattcca | caaaacgatg | catctagata | aaaaatatga | 1080 |
| catgtaaagt | gagtaatgac | tcatgtttat | tatcaaaaat | cgataacaat | caaatgatat | 1140 |
| aggtagtaaa | gtacctttga | aatggcatgt | ccaagtatgt | gtagctccac | ctagcacaat | 1200 |
| atcccaagtg | atcatcataa | aaggcatata | aatacaagca | gccgatgatg | cacacaagaa | 1260 |
| acaacacaaa | ttgcacaaaa | ccaaaagcaa | ccgatgcctt | gagcatagag | atcatgctat | 1320 |
| tcccactata | aatacaaatg | caccatatca | agatgtcctt | cacccttact | gaaaaatcac | 1380 |

aaacatcaaa acgttataag agtttctctag catccatcac atagcc 1426

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 <211> 1008
 <212> DNA
 <213> Oryza sativa

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 ttttaattca ttcttttgtt gaaactgaca tgtgggtccc atgagaatta ttatttttcg 180
 gatcgaattg ccacgtaagc gctacgtcaa tgctacgtca gatgaagacc gagtcaaatt 240
 agccacgtaa gcgccacgtc agccaaaacc accatccaaa ccgccgaggg acctcatctg 300
 cactggtttt gatagttgag ggacccgttg tatctggttt ttcgattgaa ggacgaaaat 360
 caaatttgtt gacaagttaa gggaccttaa atgaacttat tccatttcaa aatattctgt 420
 gagccatata tccgtgggct tccaatcctc ctcaaattaa agggcctttt taaaatagat 480
 aattgccttc tttcagtcac ccataaaagt acaaaactac taccaacaag caacatgcgc 540
 agttacacac attttctgca catttccacc acgtcacaaa gagctaagag ttatccctag 600
 gacaatctca ttagtgtaga tacatccatt aatcttttat cagaggcaaa cgtaaagccg 660
 ctcttttatga caaaaatagg tgacacaaaa gtgttatctg ccacatacat aacttcagaa 720
 attacccaac accaagagaa aaataaaaaa aaatcttttt gcaagctcca aatcttgaa 780
 acctttttca ctctttgcag cattgtactc ttgtctttt tccaaccgat ccatgtcacc 840
 ctcaagcttc tacttgatct acacgaagct caccgtgcac acaaccatgg ccacaaaaac 900
 cctataaaac cccatccgat cgccatcatc tcatcatcag ttcatcacca acaaacaaaa 960
 gaggaaaaaa aacatatata cttctagtga ttgtctgatt gatcatca 1008

<210> 108
 <211> 72
 <212> DNA
 <213> Oryza sativa

<220>
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 <222> (1)..(72)

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 Met Ala Ala Tyr Thr Ser Lys Ile Phe Ala Leu Phe Ala Leu Ile Ala
 1 5 10 15
 ctt tct gca agt gcc act act gca 72
 Leu Ser Ala Ser Ala Thr Thr Ala
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<210> 109
 <211> 24
 <212> PRT
 <213> Oryza sativa

<400> 109
 Met Ala Ala Tyr Thr Ser Lys Ile Phe Ala Leu Phe Ala Leu Ile Ala
 1 5 10 15
 Leu Ser Ala Ser Ala Thr Thr Ala
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<210> 110
 <211> 66
 <212> DNA
 <213> Oryza sativa

<220>
 <221> CDS
 <222> (1)..(66)

591508035Seqlist.txt

<400> 110
atg aag atc att ttc gta ttt gct ctc ctt gct att gtt gca tgc aat 48
Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Val Ala Cys Asn
1 5 10 15

gct tct gca cgg ttt gat 66
Ala Ser Ala Arg Phe Asp
20

<210> 111
<211> 22
<212> PRT
<213> Oryza sativa

<400> 111
Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Val Ala Cys Asn
1 5 10 15
Ala Ser Ala Arg Phe Asp
20

<210> 112
<211> 57
<212> DNA
<213> Oryza sativa

<220>
<221> CDS
<222> (1)..(57)

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Met Lys Ile Phe Val Ile Leu Ser Leu Leu Ala Leu Ala Ala Ser Ser
1 5 10 15

gcc tcg gca 57
Ala Ser Ala

<210> 113
<211> 19
<212> PRT
<213> Oryza sativa

<400> 113
Met Lys Ile Phe Val Ile Leu Ser Leu Leu Ala Leu Ala Ala Ser Ser
1 5 10 15
Ala Ser Ala

<210> 114
<211> 72
<212> DNA
<213> Oryza sativa

<220>
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<222> (1)..(72)

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Leu Leu Cys His Gly Ser Met Ala
20

<210> 115
<211> 24
<212> PRT
<213> Oryza sativa

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<210> 116
<211> 66
<212> DNA
<213> Oryza sativa

<220>
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<222> (1)..(66)

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gtg gcc atc tcc ggc gcg 66
Val Ala Ile Ser Gly Ala
20

<210> 117
<211> 22
<212> PRT
<213> Oryza sativa

<400> 117
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1 5 10 15
Val Ala Ile Ser Gly Ala
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<210> 118
<211> 8
<212> PRT
<213> Oryza sativa

<400> 118
Ser Arg Ala Met Val Ser Leu Gly
1 5

<210> 119
<211> 102
<212> DNA
<213> Artificial Sequence

<220>
<223> recombinant construct

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gccactactg catctagagc aatggtgagc aagggcgagg ag 102

591508035Seqlist.txt